

PowerFlex® Low Voltage Drives Selection Guide

Powerful performance. Flexible control.



LISTEN.
THINK.
SOLVE.®

Allen-Bradley • Rockwell Software

Rockwell
Automation



PowerFlex Low Voltage Drives Selection Guide

PowerFlex Family of Drives Advantage 2

PowerFlex Drives At-a-Glance10

PowerFlex Drives Selection

 PowerFlex 4M14

 PowerFlex 416

 PowerFlex 4018

 PowerFlex 40P20

 PowerFlex 40022

 PowerFlex 4-Class Options24

 PowerFlex 7032

 PowerFlex 70038

 PowerFlex 700H42

 PowerFlex 700S46

 PowerFlex 700L50

 PowerFlex 75352

 PowerFlex 75556

 PowerFlex 7-Class Options64

PowerFlex Drives Dimensions87

PowerFlex 7000 Medium Voltage Drives92

Drive Software

 DriveTools™ SP94

 DriveExplorer™95

 RSLogix™ 500095

Rockwell Automation Services & Support96

Additional Resources97



The PowerFlex Family of Drives Advantage

Powerful performance. Flexible control.

The Allen-Bradley® PowerFlex family of drives offers a broad range of control modes to fit virtually any motor control requirement. With the combination of features, options and packaging for application versatility, to helping meet safety requirements, ease programming and configuration the PowerFlex family has a solution to meet your application demands.

Designed to offer you a complete portfolio covering global voltages and a wide range of power ratings, the PowerFlex family of drives offers a common experience out of the box and on the line.

PowerFlex 4-Class drives deliver a simple and cost effective solution for machine level, stand alone control applications or simple system integration. Designed for ease of use, this general purpose class of drives provides a compact package to optimize panel space and application versatility.

PowerFlex 7-Class drives provide a broad set of features, application specific parameters and are ideal for high performance applications. This class of drives is designed for advanced application flexibility and control system integration.

"By using the integrated control approach from Rockwell Automation, we know that we are delivering one of the most cutting-edge technologies available from one of the best providers in the automation industry, and will continue to do so for years to come."

*Adolfo Edgar
Brampton Engineering – Canada*

Scalable Motor Control

Because there are a wide variety of application requirements, PowerFlex drives offer a broad range of motor control solutions. From open loop speed regulation to precise speed and torque control, the PowerFlex family of drives can meet the simplest to the most demanding applications. The family also features a wide selection of hardware, software, safety and packaging options to help fit your needs.

- Reduce total cost of ownership by selecting a drive built for application requirements, with as many options as the application requires
- Boost productivity with specific application control such as TorqProv™ for lifting applications and Pump-Off for oil wells
- Protect against unplanned downtime with advanced diagnostics and notification of irregular operating parameters
- Easily configure and commission with software tools and wizards

Seamless Drive and Control System Integration

Save configuration and troubleshooting time by seamlessly integrating PowerFlex drives and Logix programmable automation controllers.

- Unite communication between plant floor and the front office and get convenient access to real-time information and production data with EtherNet/IP™, DeviceNet™, ControlNet™, and other networks
- Lower programming, installation and overall ownership costs with consolidated drive system configuration, operation and maintenance with one software tool
- Increase productivity with easy access to system and machine level data and diagnostic information utilizing a single repository for configuration data



Improve Productivity with Safety Functionality

Increase productivity and help protect personnel with industry-leading safety options. Select Safe Torque-Off (DriveGuard®) and Safe Speed Monitoring to help protect your personnel, your equipment and conform to specific safety requirements and certifications.

- Protect against potentially hazardous equipment or operating conditions
- Reduce costs and wiring complexity with the Safe Speed Monitor option that does not require the use of an external relay
- Resume production faster after a demand on the safety system has occurred
- Meet safety ratings up to and including PLe/SIL3 and CAT 3 and CAT 4

"By using feedback from the pressure gauge we can automatically reduce the speed and therefore the energy required; using just enough energy at all times."

Peter Johns
XCS Systems Ltd. – United Kingdom

Drive Efficient Operations

Improved motor control performance and motor efficiency means greater overall production efficiency. PowerFlex drives are capable of providing both an immediate and measurable impact on energy use and operational efficiency.

- Help reduce and track energy consumption by applying a PowerFlex drive to your application
- Predict mechanical problems and help improve performance with diagnostics and real time data
- Access historical data directly from the factory floor

"We needed drives that were easy to integrate and small enough to fit in the limited space available ... When we saw how simple it was to integrate Allen-Bradley AC drives with our Allen-Bradley ControlLogix® controllers thanks to the Integrated Architecture system, we were sold."

Chuck Atchison
Leitner-Poma – US

World Class Offering

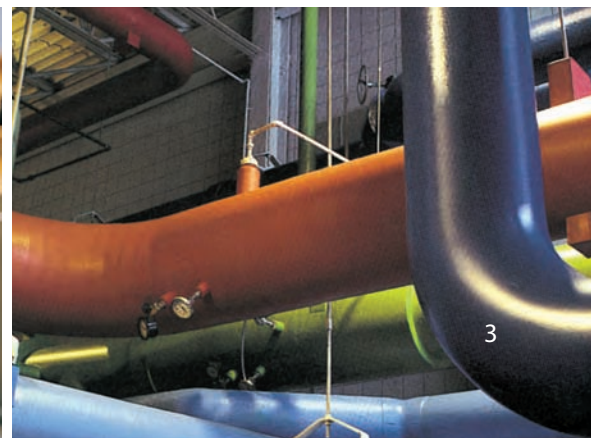
The PowerFlex family of drives is backed by over 100 years of motor control application and expertise.

- Meet most environmental requirements with factory and field installable packaging options from cabinet and wall mount to extra protection for harsh environments
- Meet standards worldwide including UL, CE, CUL, C-Tick, RoHS
- Support drive system installation with the largest network of services and support

Entire Plant Solutions from Plant Floor to Top Floor

As a global automation leader, Rockwell Automation is uniquely positioned to help our customers capitalize on the business benefits of integrating factory floor controls and enterprise systems.

When you choose a PowerFlex drive, you are receiving industry-leading motor control and protection, plus the advanced system-wide communication capabilities of the Rockwell Automation Integrated Architecture™. With this you get an Intelligent Motor Control solution, where you can expect faster programming and installation, decreased mechanical wear, reduced energy consumption and improved motor performance.



Motor Control

For optimized motor control solutions for any application, the PowerFlex family leverages a wide range of control technologies to give you the ability to meet virtually any application requirement from open loop speed regulation to precise torque and speed control.

In addition to industry standard motor control, the PowerFlex family offers unique control technologies that can provide you with even greater application flexibility.

"We believe in maintaining motors for the long run. It saves us more money to dedicate our efforts toward protecting these motors instead of running them until they break."

*Bob Wright
Ash Grove Cement – US*

FORCE™ Technology – Vector Control combined with the patented FORCE technology helps provide excellent low speed/zero speed performance and delivers accurate and reliable torque regulation and speed.

DeviceLogix™ – DeviceLogix is an embedded control technology in selected Allen-Bradley products that can control outputs and manage status information onboard a device. A drive with DeviceLogix technology can help improve system performance and productivity by controlling outputs and managing status and information within the drive. Help speed reaction time by processing in the drive which reduces dependency on network throughput and provide an option for decision making if communication is lost with main controller. This technology can be found in the PowerFlex 750-Series.

DriveLogix™ – The PowerFlex 700S AC Drive with DriveLogix option offers an embedded Logix processor, to provide optimized integration for demanding control in drive systems or stand-alone applications. The PowerFlex 700S drive with DriveLogix supports the common programming environment and multiple programming languages supported by all Logix platforms.

SynchLink™ – A drive-to-drive data link available in the PowerFlex 700S drive is a high-speed, synchronous, drive-to-drive data link for transmitting synchronized drive and application data. SynchLink offers process coordination and performance beyond that of standard control networks.



Specific Application Control

Select PowerFlex drives have specialized drive parameters configured to support a particular application. Application Sets are a configuration of the standard drive parameters designed to simplify a user's implementation of a standard drive application without the need for custom programming.

Positioning – The PowerFlex 40P, 700, 700S and 750-Series are optimized for single-axis applications. With features ranging from simple position and velocity profiling and point-to-point planners to more complex electronic gearing, registration, homing and safety capabilities these drives are ideal for speed and position control applications.

TorqProve™ – For lifting applications helps assure control of the load in any lifting or hoisting application. This advanced control capability assures that the mechanical brake has control of the load when stopping the drive and the drive has control of the load when releasing the brake during any move command. Combined with patented FORCE™ Technology, TorqProve helps eliminate concerns with brake timing and environmental changes and can significantly reduce wear and tear on mechanical brake with smooth operation and reduced machine stress. This standard feature is available in the PowerFlex 700 and 755.

Pump Off – This unique feature specific for oil well applications is a patented pump-off function that measures the torque and currents on a motor to determine flow from a well. This alternative to traditional mechanical flow meters, allows pump operators to optimize production based on the flow of the well and can also help reduce downtime by protecting the rod and motor assets. This feature is available in the PowerFlex 700 and 753 drives.

Safety

PowerFlex 40P, 70, 700H, 700S and 750-Series AC drives are available with optional Safe Torque-Off (DriveGuard) functionality offering Safe-off control.

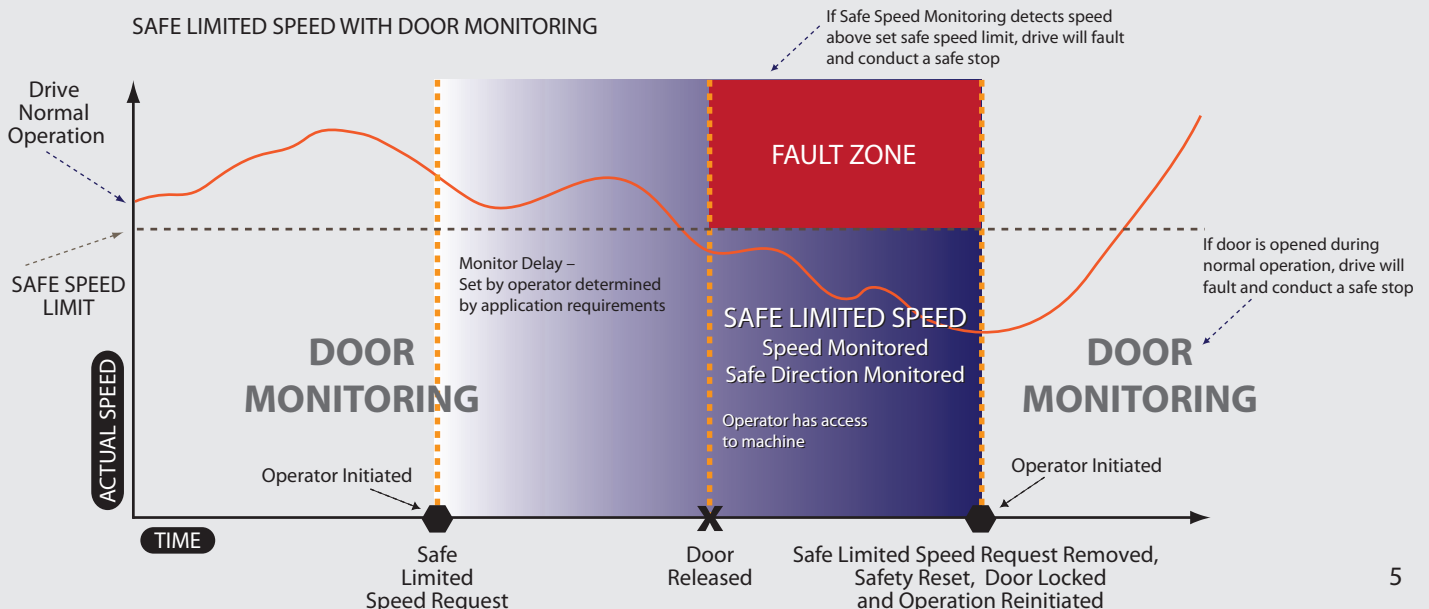
Safe Torque-Off is ideal for safety related applications requiring removal of rotational power to the motor without removing power from the drive. Safe Torque-Off functionality offers the benefit of quick start-up after a demand on the safety system and helps reduce wear from repetitive start-up and provides safety ratings up to and including PLe/SIL CL3 and CAT 3.

The Safe Speed Monitor provides a solution for applications that can benefit from access to a safety zone while there is limited motion. In addition, the Safe Speed Monitor has an integrated monitoring relay to save additional panel space installation labor. This option carries a safety rating up to and including PLe/SIL CL3 and Cat 4. With the Safe Speed Monitor option you can safely monitor and control the speed of your application which allows operators to perform process or maintenance work without stopping the machine.

Drives without a safety option can be configured with the MSR57P Safety Relay to achieve the same safe limited speed capability and safety ratings.

Safe Speed Monitor option provides the following functionality:

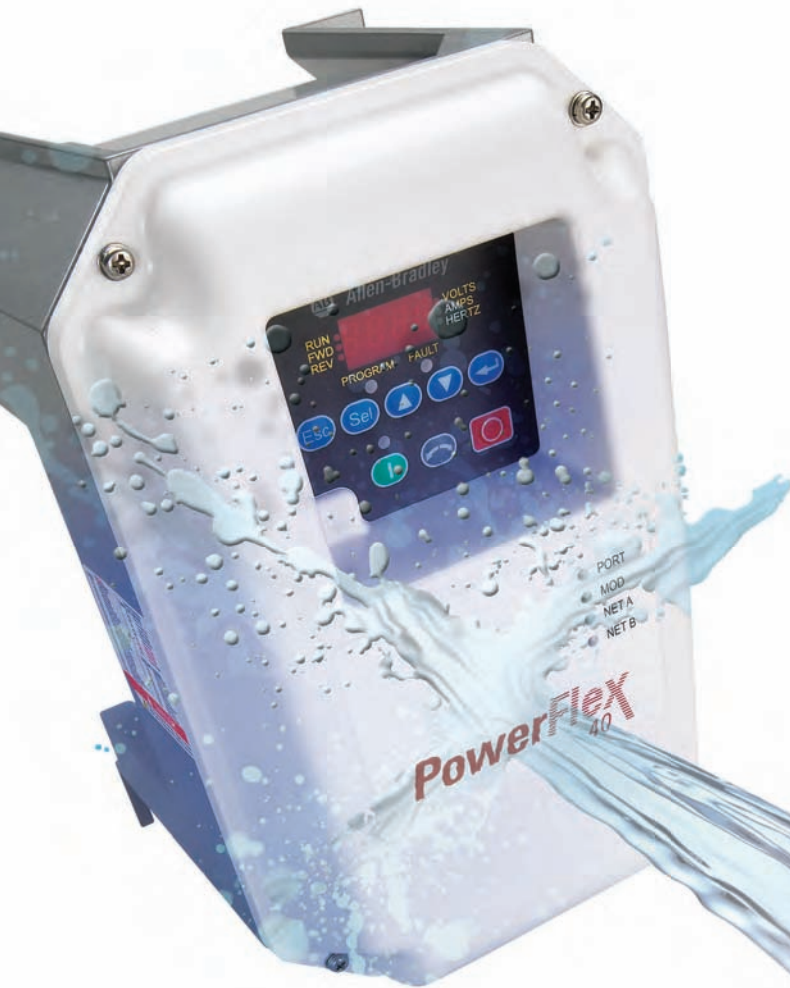
- Safe Torque-Off
- Stop Categories 0, 1 and 2
- Safe Stop
- Safe Limited Speed
- Safe Maximum Speed
- Safe Maximum Acceleration
- Safe Direction
- Zero Speed Monitoring
- Door Control and Monitoring
- Enabling switch input



Enclosures

The PowerFlex family of drives are available with factory and field installable enclosure options to meet most environmental requirements. These packaging options include open type cabinet mount, extra protection flange mount and extra protection wall mount for harsh environments and meet IP and NEMA requirements including:

- IP00/IP20 & NEMA/UL Open Type
- IP66 & NEMA/UL Type 4X and 12
- IP54 & NEMA/UL Type 12



Communications

Easily manage information from shop floor to top floor and seamlessly integrate your complete system while controlling, configuring and collecting data.

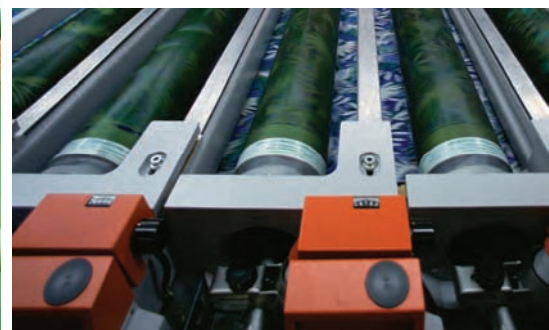
The Allen-Bradley PowerFlex family of drives utilizes the NetLinx open network architecture, which provides the common set of features and services for the common industrial protocol (CIP) used in EtherNet/IP™, DeviceNet™, and ControlNet™. Providing the ability to control, configure, and collect data on a single network, simplifies plant communication and can help lower total cost of ownership.



CIP is a major component within the NetLinx Open Network Architecture, and it provides you with the following common features:

- **Common control services** – provides you with a standard set of messaging services for all three networks within the NetLinx architecture.
- **Common communication services** – lets you connect to any network and configure and collect data from any network common routing capabilities. This saves time and effort during system configuration because no routing tables or added logic are necessary to move data between networks.
- **Common base knowledge** – reduces the amount of training needed when moving to different networks within the NetLinx architecture by providing similar configuration tools and features.

In addition to NetLinx open network architecture, PowerFlex drives are capable of supporting industrial protocols found throughout the world. See the 4-Class and 7-Class options for more details.



Premier Integration

By integrating the advanced capabilities of the Rockwell Automation Integrated Architecture and the communication capabilities of PowerFlex drives, you can achieve an unmatched level of integration between drives and controllers. We call it Premier Integration.

Premier Integration is the ability to configure drives using RSLogix 5000 allowing users to consolidate controller programming, drive system configuration, operation and maintenance into a single, integrated environment, helping to significantly reduce time for both programming and commissioning in addition to overall ownership costs by minimizing the number of software tools required.



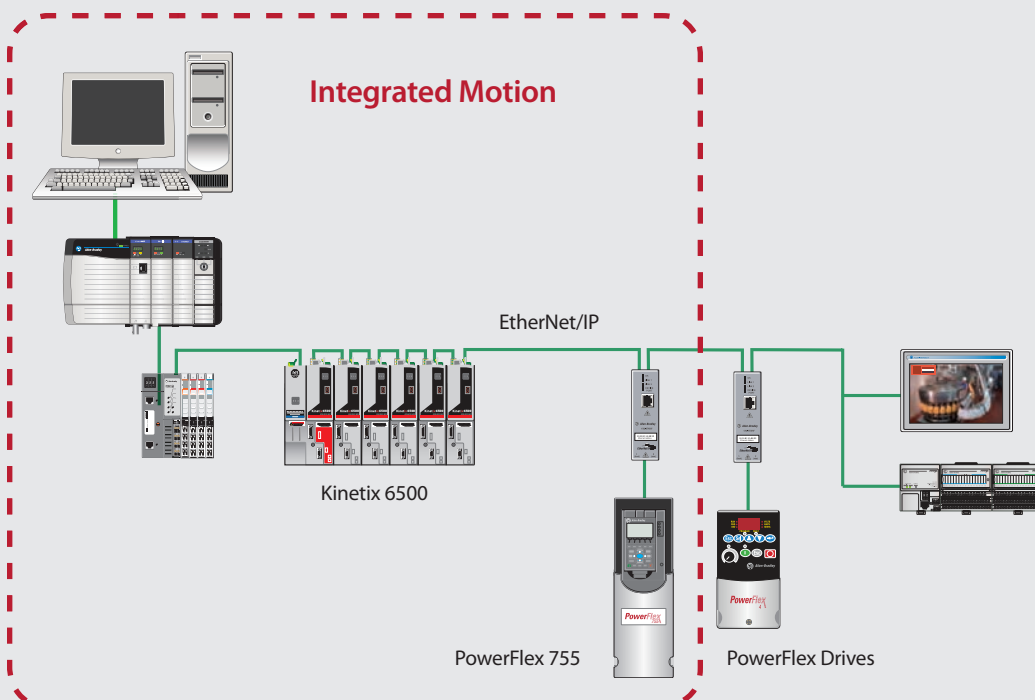
Achieve a New Level of Machine Flexibility and Functionality with Integrated Motion on EtherNet/IP

For the first time, PowerFlex 755 and Kinetix® drives can be configured, programmed and controlled using RSLogix 5000 (v19) via motion instruction sets and on the same network – EtherNet/IP. Integrated Motion on EtherNet/IP not only provides high performance closed- and open-loop drive control on a single network but with motion profiles and instructions embedded in the controller, helps ensure device precision and synchronization.

- Rockwell Automation Integrated Motion on EtherNet/IP uses CIP Motion™ and CIP Sync™ technology from ODVA, all built on the Common Industrial Protocol (CIP). Global standards help ensure consistency and interoperability

- EtherNet/IP uses standard, unmodified Ethernet, and allows you to effectively manage real-time control and information flow for improved plant-wide optimization, more informed decision-making and better business performance
- Time synchronization of drives, I/O and other EtherNet/IP compliant devices provides the performance to help solve the most challenging applications
- A single software package, RSLogix 5000, provides complete system support including motion configuration, programming, commissioning, diagnostics and drive maintenance
- Use of standard Ethernet allows you to connect to a large number of business, commercial and industrial devices; there's no need for proprietary hardware or software

EtherNet/IP—A Single Network for Complete Machine Control



Connect Your Entire Enterprise

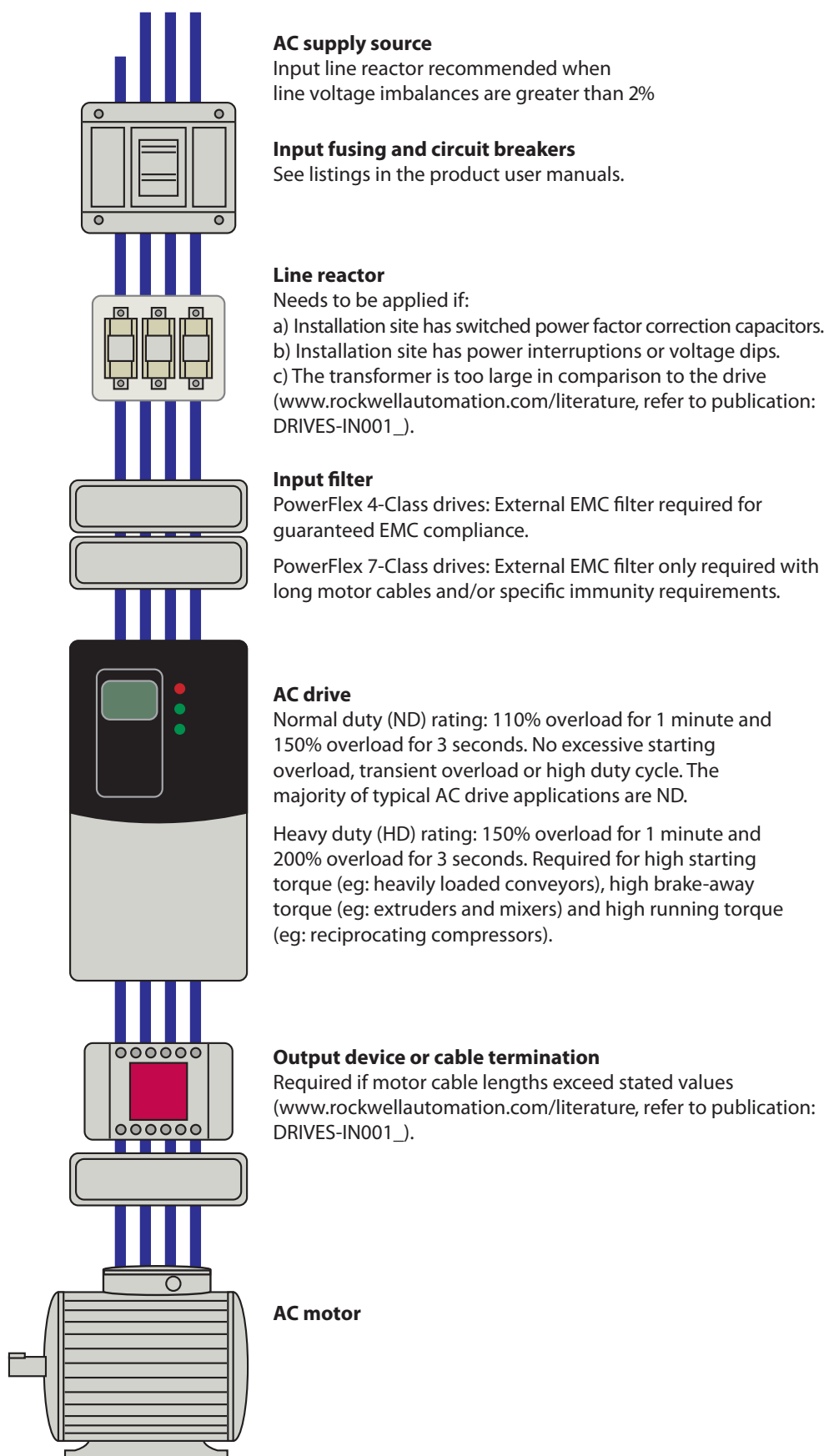
Benefit from the EtherNet/IP network for complete machine control that simplifies and enhances machine design.

- Low cost, high performance and easy to use as compared to a multi-network architecture
- Easily integrate any PowerFlex drive, I/O, smart actuators and any other EtherNet/IP connected device



Line & Load Options

Typical drive application



Product Selection Toolbox

The Product Selection Toolbox is a collection of product selection and system design software tools that help you select Allen-Bradley products and design application solutions using those products.

From this tool you can create a single bill of material for the complete range of Allen-Bradley products; configure Motor Control Bus Systems, Motor Control Centers, Automation Systems, and Motion Control Systems; and create project bids and submittal documents.

Product Selection

- Drive Selector Wizard in ProposalWorks™ – Select a Low Voltage Drive
- Integrated Architecture Builder – Configure Automation Systems
- CenterONE® – Design Low Voltage Motor Control Centers
- MCS™ Star – Design Modular Motor Control Systems

System Design and Support Tools

- eCADWorks – Get CAD Drawings
- MotionAnalyzer – Design tool for speed and positioning applications
- RailBuilder™ – Design DIN Mountable Systems

PowerFlex Accelerator Toolkit

The PowerFlex Accelerator Toolkit provides easy to-use tools and faceplates to help you easily design, install, operate and maintain a drive system.

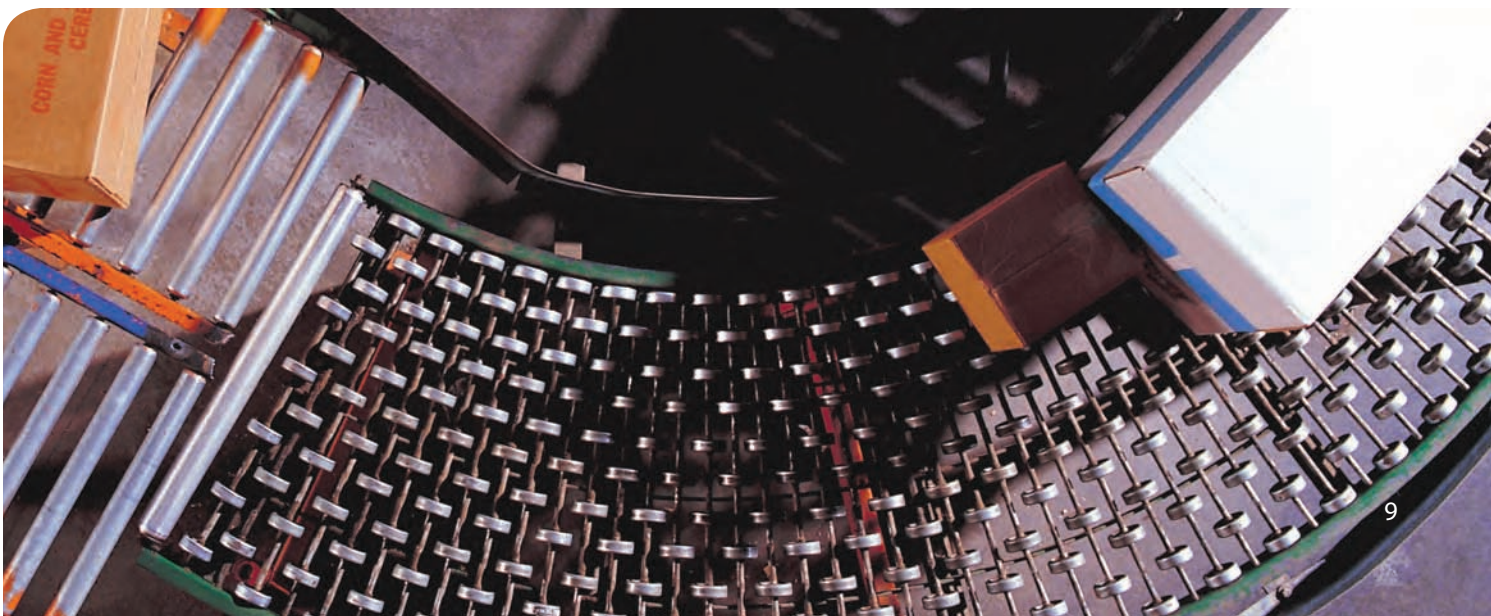
- **Sample Panel Layout** – Preconfigured panel layout drawings built on best practices and adapt them to fit the needs of your machine. CAD drawings are supplied as a starting point and significantly reduce design time
- **Simplified Wiring** – Wiring diagrams in DWG, DFX, or PDF format significantly reduce time spent on design and panel wiring
- **Preconfigured HMI** – Leveraging the preconfigured HMI faceplates provide device status, control and diagnostics while significantly reducing integration costs and improving performance and time to market
- **Preconfigured Logic** – The preconfigured logic provides the interface between the PowerFlex drives and the HMI faceplates and the specific application logic, helping to significantly minimize your engineering costs

Download the tool at: www.ab.com/go/iatools

Motion Analyzer

For applications requiring more than a constant load and steady speed, Motion Analyzer software can help by handling the necessary complex calculations. Motion Analyzer features an easy-to-use format which can reduce design risk for speed and positioning applications that include PowerFlex drives or Kinetix servo drives.

Download the tool at:
www.rockwellautomation.com/go/imcmotion



POWERFLEX AC DRIVES

Motor Control

Application

Ratings 100-115V 1 Phase
In/3 Phase 230V Out

Ratings 200-240V

Ratings 400-480V

Ratings 500-600V

Ratings 690V

Ambient Temperature
Limit for Enclosure Types

EMC Filters

Standards and Certifications

Overload Capability

Output Frequency Range

User Interface

Communications Options

Analog Inputs

Analog Outputs

PTC Inputs

Digital Inputs

Relay Outputs

Transistor Outputs

Dynamic Braking

Integrated Safety

PowerFlex 4M AC Drive



- Volts per Hertz
- Open Loop Speed Regulation
- 0.2...1.1 kW • 0.25...1.5 Hp • 1.6...6 A
- 0.2...7.5 kW • 0.25...10 Hp • 1.6...33 A
- 0.37...11 kW • 0.5...15 Hp • 1.5...24 A
- N/A
- N/A
- IP20: -10 to 50° C (14 to 122° F)
• IP20 zero stacking: -10 to 40° C (14 to 104° F)
- Internal (1 phase 240V and 3 phase 480V)
• External (1 & 3 phase)
- UL, CE, cUL, C-Tick
- 150% for 60 secs • 200% for 3 secs
- 0...400Hz
- Local Keypad • Remote Keypad
• RSLogix 5000 • DriveExplorer
• DriveTools SP
- Integral RS485 (Modbus RTU)
• Optional: *DeviceNet, *EtherNet/IP, *PROFIBUS DP, *ControlNet,
*LonWorks®, *Bluetooth®
*Optional network for use only with DSI External Communications Kit
- Qty. 1 (unipolar voltage)
- None
- Qty. 1 (uses an Analog Input)
- Qty. 5 (24V DC, 2 programmable)
- Qty. 1 (form C)
- None
- Internal IGBT except catalog numbers ending in "3"
- No

Found on page 14

PowerFlex 4 AC Drive



- Volts per Hertz
- Open Loop Speed Regulation
- 0.2...1.1 kW • 0.25...1.5 Hp • 1.6...6 A
- 0.2...3.7 kW • 0.25...5 Hp • 1.4...17.5A
- 0.37...3.7 kW • 0.5...5 Hp • 1.4...8.7 A
- N/A
- N/A
- IP20, NEMA/UL Type Open: -10 to 50° C (14 to 122° F)
• IP30, NEMA/UL Type 1: -10 to 40° C (14 to 104° F)
• Flange = 50° C (122° F)
- Internal (1 phase) • External (3 phase)
- UL, CE, cUL, C-Tick
- 150% for 60 secs • 200% for 3 secs
- 0...240Hz
- Local Keypad • Remote Keypad
• RSLogix 5000 • DriveExplorer
• DriveTools SP
- Integral RS485 (Modbus RTU)
• Optional: *DeviceNet, *EtherNet/IP, *PROFIBUS DP, *ControlNet,
*LonWorks®, *BACnet, *Bluetooth®
*Optional network for use only with DSI External Communications Kit
- Qty. 1 (unipolar voltage)
- None
- Qty. 1 (uses an Analog Input)
- Qty. 5 (24V DC, 2 programmable)
- Qty. 1 (form C)
- None
- Internal IGBT except catalog numbers ending in "3"
- No

Found on page 16

PowerFlex 40 AC Drive



- Volts per Hertz • Sensorless Vector Control
- Open Loop Speed Regulation
- 0.37...1.1 kW • 0.5...1.5 Hp • 2.3...6 A
- 0.37...7.5 kW • 0.5...10 Hp • 2.3...33 A
- 0.37...11 kW • 0.5...15 Hp • 1.4...24 A
- 0.75...11 kW • 1...15 Hp • 1.7...19 A
- N/A
- IP20, NEMA/UL Type Open: -10 to 50° C (14 to 122° F)
- IP30, NEMA/UL Type 1: -10 to 40° C (14 to 104° F)
- IP66, NEMA/UL Type 4X/12: -10 to 40° C (14 to 104° F)
- Flange = 50° C (122° F)
- Internal (1 phase) • External (3 phase)
- UL, CE, cUL, C-Tick
- 150% for 60 secs • 200% for 3 secs
- 0...400Hz
- Local Keypad • Remote Keypad • RSLogix 5000
- DriveExplorer • DriveTools SP
- Integral RS485 (Modbus RTU)
- Optional: DeviceNet, EtherNet/IP, PROFIBUS DP, ControlNet, LonWorks, BACnet, *Bluetooth*
- Qty. 2 (1 bipolar voltage, 1 current)
- Qty. 1 (unipolar voltage or current)
- Qty. 1 (uses an Analog Input)
- Qty. 7 (24V DC, 4 programmable)
- Qty. 1 (form C)
- Qty. 2
- Internal IGBT
- No

Found on page 18

PowerFlex 40P AC Drive



- Volts per Hertz • Sensorless Vector Control
- Closed Loop Speed Regulation
- N/A
- 0.37...7.5 kW • 0.5...10 Hp • 2.3...33 A
- 0.37...11 kW • 0.5...15 Hp • 1.4...24 A
- 0.75...11 kW • 1...15 Hp • 1.7...19 A
- N/A
- IP20, Open Type: -10 to 50° C (14 to 122° F)
- IP30, NEMA Type 1, UL Type 1: -10 to 40° C (14 to 104° F)
- Flange and Plate Mount: Heatsink: -10 to 40° C (14 to 104° F)
- Drive: -10 to 50° C (14 to 122° F)
- External
- UL, CE, cUL, C-Tick, TUV FS ISO/EN13849-1 (EN954-1)
- 150% for 60 secs • 200% for 3 secs
- 0...500Hz
- 4 Digit LED Display and Fault Reset • Remote Keypad
- RSLogix 5000 • DriveExplorer • DriveTools SP
- Integral RS485 (Modbus RTU)
- Optional: DeviceNet, EtherNet/IP, PROFIBUS DP, ControlNet, LonWorks, *Bluetooth*
- Qty. 2 (1 bipolar voltage, 1 current)
- Qty. 1 (unipolar voltage or current)
- Qty. 1 (uses an Analog Input)
- Qty. 7 (24V DC, 5 programmable)
- Qty. 1 (form C)
- Qty. 2
- Internal IGBT
- Safe Torque-Off, SIL2, PLd, Cat3

Found on page 20

PowerFlex 400 AC Drive



- Volts per Hertz
- Open Loop Speed Regulation
- N/A
- 2.2...37 kW • 3.0...50 Hp • 12...145 A
- 2.2...250 kW • 3.0...350 Hp • 6...460 A
- N/A
- N/A
- IP20, NEMA/UL Type Open: -10 to 50° C (14 to 122° F)
- IP30, NEMA/UL Type 1: -10 to 45° C (14 to 113° F)
- External
- UL, CE, cUL, C-Tick
- 110% for 60 secs
- 0...320Hz
- Local Keypad • Remote Keypad • RSLogix 5000
- DriveExplorer • DriveTools SP
- Integral RS485 (Modbus RTU, Metasys N2, P1-FLN)
- Optional: DeviceNet, EtherNet/IP, PROFIBUS DP, ControlNet, LonWorks, BACnet, *Bluetooth*
- Qty. 2 (1 bipolar voltage or current, 1 unipolar voltage or current)
- Qty. 2 (unipolar voltage or current)
- Qty. 1 (uses an Analog Input)
- Qty. 7 (24V DC, 4 programmable)
- Qty. 2 (form C)
- Qty. 1
- No
- No

Found on page 22

POWERFLEX AC DRIVES

Motor Control

Application

Single-phase Input w/Derate

Ratings 200-240V

Ratings 400-480V

Ratings 500-600V

Ratings 690V

Ambient Temperature Limit for Enclosure Types

EMC Filters

Standards and Certifications

Overload Capability

Output Frequency Range

User Interface

Communications Options

Conformal Coating

Analog Inputs

Analog Outputs

PTC Inputs

Digital Inputs

Relay Outputs

Transistor Outputs

Internal Brake Transistor

AC Input Choke

DC Link Choke

Common Mode Choke

Integrated Safety

PowerFlex 70 AC Drive



- Vector Control w/FORCE Technology
- Sensorless Vector Control • Volts per Hertz

- Open Loop Speed Regulation • Closed Loop Speed Regulation • Precise Torque Regulation

- Yes

- 0.37...18.5 kW • 0.5...25 Hp • 2.2...70 A

- 0.37...37 kW • 0.5...50 Hp • 1.1...72 A

- 0.37...37 kW • 0.5...50 Hp • 0.9...52 A

- N/A

- IP20, NEMA/UL Type 1: 0 to 50° C (32 to 122° F)
- Flange Mount: 0 to 50° C (32 to 122° F)
- IP66, NEMA/UL Type 4X/12 indoor: 0 to 40° C (32 to 104° F)

- Internal

- UL, CE, cUL, C-Tick, RINA, Lloyds Registry, ABS, SEMI F47
- TUV FS ISO/EN13849-1 (EN954-1)

- Normal Duty Application • 110% - 60s, 150% - 3s
- Heavy Duty Application • 150% - 60s, 200% - 3s

- 0 - 500Hz

- Local PowerFlex HIMs • Remote PowerFlex HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP

- Internal DPI • DeviceNet • ControlNet (Coax or Fiber)
- EtherNet/IP • Remote I/O • RS485 DF1 • BACnet
- RS485 HVAC (Modbus RTU, Metasys N2, Siemens P1)
- PROFIBUS DP • Interbus • Bluetooth • External SCANport
- Modbus/TCP • CANopen • LonWorks

- Option

- Qty. 2 (1 bipolar voltage or current, 1 unipolar voltage or current)

- Qty. 1 (unipolar voltage or current)

- Qty. 1 (uses an Analog Input)

- Qty. 6 (24V DC or 115V AC)

- Qty. 2 (form C)

- None

- Standard

- No

- FR C-E Yes

- External option

- Safe Torque-Off SIL CL2, PLD, Cat 3

Found on page 32

PowerFlex 700 AC Drive



- Vector Control w/FORCE Technology
- Volts per Hertz
- Adjustable Voltage Control

- Open Loop Speed Regulation • Closed Loop Speed Regulation • Precise Torque Regulation
- Precise Torque & Speed Regulation

- Yes

- 0.37...75 kW • 0.5...100 Hp • 2.2...260 A

- 0.37...500 kW • 0.5...700 Hp • 1.1...875 A

- 0.75...110 kW • 1...150 Hp • 1.7...144 A

- 45...132 kW • 50...150 Hp • 52...142 A

- IP20, NEMA/UL Type Open: Frames 0-6: 0 to 50° C (32 to 122° F), typical Frames 7-10: 0 to 40° C (32 to 104° F) for chassis 0 to 65° C (32 to 149° F) for control
- NEMA/UL Type 1: Frames 0-6: 0 to 40° C
- IP 00/NEMA Open/Flange = 40° C (104° F)

- Internal (frame 0-6 only)

- UL, CE, cUL, C-Tick, RINA*, Lloyds Registry*, ABS*, SEMI F47* • ATEX
- *Does not apply to frames 7-10

- Normal Duty Application • 110% - 60s, 150% - 3s
- Heavy Duty Application • 150% - 60s, 200% - 3s

- 0 - 420Hz

- Local PowerFlex HIMs • Remote PowerFlex HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP

- Internal DPI • DeviceNet • ControlNet (Coax or Fiber)
- EtherNet/IP • Remote I/O • RS485 DF1 • BACnet
- RS485 HVAC (Modbus RTU, Metasys N2, Siemens P1)
- PROFIBUS DP • Interbus • Bluetooth • Modbus/TCP
- CANopen • LonWorks (SC only)

- Option

- Qty. 2 (bipolar voltage or current)

- Qty. 2 (bipolar voltage or current)

- Qty. 1 (dedicated)

- Qty. 6 (24V DC or 115V AC)

- Qty. 3 (1 form A, 1 form B, 1 form C)

- None

- Standard (frame 0-6 only)

- No

- Yes

- Internal (frame 0-6 only)

- No

Found on page 38

PowerFlex 700H AC Drive



- Volts per Hertz
- Sensorless Vector Control

- Open Loop Speed Regulation

- Yes

- N/A

- 132...1600 kW • 200...2300 Hp • 261...2700 A

- 160...2000 kW • 150...2400 Hp • 170...2250 A

- 160...2000 kW • 150...2400 Hp • 170...2250 A

- IP 21/NEMA/UL Type 1
- Normal Duty = 0-40° C (32-104° F)
- Heavy Duty = 0-40° C (32-104° F)

- Internal

- UL, CE, cUL, C-Tick
- ATEX with Safe Torque-Off option
- TUV FS ISO/EN13849-1 (EN954-1)

- Normal Duty Application • 110% - 60s
- Heavy Duty Application • 150% - 60s, 200% - 2s*
- *Limits Apply

- 0 - 320Hz

- Local PowerFlex HIMs • Remote PowerFlex HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP

- Internal DPI • DeviceNet • ControlNet (Coax or Fiber)
- EtherNet/IP • Remote I/O • RS485 DF1 • BACnet
- RS485 HVAC (Modbus RTU, Metasys N2, Siemens P1)
- PROFIBUS DP • Interbus • Bluetooth • Modbus/TCP
- CANopen • LonWorks

- Option

- Qty. 2 (bipolar voltage or current)

- Qty. 2 (bipolar voltage or current)

- Qty. 1 (uses an Analog Input)

- Qty. 6 (24V DC or 115V AC)

- Qty. 3 (1 form A, 1 form B, 1 form C)

- None

- Optional (frame 9 only)

- Yes

- No

- Internal

- Safe Torque-Off SIL CL2, PLD, Cat 3

Found on page 42

PowerFlex 700S AC Drive



- Vector Control w/FORCE Technology with and without an encoder • Volts per Hertz
- Permanent Magnet Motor Control
- Closed Loop Speed Regulation • Precise Torque Regulation
- Precise Torque & Speed Regulation • Accurate Positioning
- Yes
- 0.75...66 kW • 1...100 Hp • 4.2...260 A
- 0.75...800 kW • 1...1250 Hp • 2.1...1450 A
- 75...1500 kW • 1...1600 Hp • 1.7...1500 A
- 75...1500 kW • 75...1600 Hp • 77...1500 A
- IP20, NEMA/UL Type Open: 0 to 50°C (32 to 122°F)
- IP21, NEMA/UL Type 1: 0 to 40°C (32 to 104°F)
- Internal
- UL, CE, cUL, C-Tick, RINA*
- TUV FS ISO/EN13849-1 (EN954-1)
- * Applies to frames 1-6
- Normal Duty Application • 110% - 60s, 150% - 3s
- Heavy Duty Application • 150% - 60s, 200% - 3s
- 0 - 400 Hz (Frames 1-6) • 0 - 320 Hz (Frames 9-14)
- Local PowerFlex HIMs • Remote PowerFlex HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP
- Internal DPI • DeviceNet • ControlNet (Coax or Fiber)
- EtherNet/IP • Remote I/O • RS485 DF1
- RS485 HVAC (Modbus RTU, Metasys N2, Siemens P1)
- PROFIBUS DP • Interbus • Bluetooth
- Qty. 3 (2 bipolar voltage or current, 1 unipolar voltage)
- Qty. 2 (bipolar voltage or current)
- Qty. 1 (uses an Analog Input)
- Qty. 6 (3 - 24V DC or 115V AC, 3 - 24V DC)
- Qty. 1 (form C)
- Qty. 2
- Standard (frames 1-6) Optional (frame 9)
- FR1-6 No, FR9-15 Yes
- FR1-6 No, FR9-15 Yes
- Internal (frame 1-9 only)
- Safe Torque-Off SIL CL2, PLd, Cat 3

Found on page 46

PowerFlex 700L AC Drive



- Available with PowerFlex 700 Vector Control or PowerFlex 700S Phase II Control boards.
- Open Loop Speed Regulation • Closed Loop Speed Regulation • Precise Torque Regulation
- Precise Torque & Speed Regulation
- No
- N/A
- 200...715 kW • 300...1150 Hp • 360...1250 A
- 345...650 kW • 465...870 Hp • 425...800 A
- 355...657 kW • 475...881 Hp • 380...705 A
- IP00, NEMA/UL Type Open (frame 2): 0 to 50°C (32 to 122°F)
- IP20, NEMA/UL Type 1 (frame 3A and 3B): 0 to 40°C (32 to 104°F)
- Internal
- UL, CE, cUL, C-Tick
- TUV FS ISO/EN13849-1 (EN954-1) (with 700S control)
- Normal Duty Application • 110% - 60s, 150% - 3s
- Heavy Duty Application • 150% - 60s, 200% - 3s
- Output frequency dependant on control boards
- Local PowerFlex HIMs • Remote PowerFlex HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP
- Internal DPI • DeviceNet • ControlNet (Coax or Fiber)
- EtherNet/IP • Remote I/O • RS485 DF1 • BACnet
- RS485 HVAC (Modbus RTU, Metasys N2, Siemens P1)
- PROFIBUS DP • Interbus • Bluetooth
- See PowerFlex 700 or 700S based on control version
- Integral Regenerative capability
- Yes
- No
- External option
- Safe Torque-Off SIL CL2, PLd, Cat 3 (with 700S control)

Found on page 50

PowerFlex 753 AC Drive



- Vector Control w/FORCE Technology with and without an encoder • Sensorless Vector Control
- Volts per Hertz
- Open Loop Speed Regulation • Closed Loop Speed Regulation • Precise Torque Regulation
- Precise Torque & Speed Regulation • Indexer Positioning
- Yes
- N/A
- 0.75...250 kW (2.1...456A) • 1...350 Hp (2.1...415 A)
- N/A
- N/A
- IP00/IP10/IP20, NEMA/UL Open Type = 0-50°C (32-122°F)
- Flange Mount Front: IP00/IP20, NEMA/UL Open Type = 0-50°C (32-122°F) • Flange Mount Back: IP66, NEMA/UL Type 4X = 0-40°C (32-104°F)
- IP54, NEMA/UL Type 12 = 0-40°C (32-104°F)
- Internal
- UL, CE, cUL, C-Tick, SEMI F47, GOST-R
- TUV FS ISO/EN13849-1 (EN954-1) for Safe Torque-Off and Safe Speed Monitor options • ROHS compliant materials • Conformal Coating standard
- Normal Duty Application • 110% - 60s, 150% - 3s
- Heavy Duty Application • 150% - 60s, 180% - 3s
- 0...325 Hz @ 2 kHz PWM • 0...650 Hz @ 4 kHz PWM
- Local PowerFlex 750 Series HIMs
- Remote PowerFlex 750 Series HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP
- EtherNet/IP • ControlNet (Coax or Fiber) • DeviceNet
- Remote I/O • RS485 DF1 • PROFIBUS DP
- Modbus/TCP • HVAC (Modbus RTU mode) • Bluetooth
- Standard
- Up to 7 total (bipolar voltage or current)
- Up to 7 total (bipolar voltage or current)
- Up to 3 total
- Up to 21 total (Qty. 21 - 24V DC or Qty. 19 - 115V AC)
- Up to 7 total
- Up to 7 total
- Standard (frames 2-5) Optional (frame 6-7)
- No
- Yes
- External option
- Safe Torque-Off SIL CL3, PLe, Cat 3
- Safe Speed Monitor SIL CL3, PLe, Cat 4

Found on page 52

PowerFlex 755 AC Drive



- Vector Control w/FORCE Technology with and without an encoder • Sensorless Vector Control • Volts per Hertz
- Permanent Magnet Motor Control • TorqueProv
- Open Loop Speed Regulation • Closed Loop Speed Regulation
- Precise Torque Regulation • Precise Torque & Speed Regulation
- Accurate Positioning with PCAM, Indexer and Gearing
- Kinematics and multi-axis support with Integrated Motion
- Yes
- N/A
- 0.75...450 kW (2.1...832A) • 1...700 Hp (2.1...800 A)
- N/A
- N/A
- IP00/IP10/IP20, NEMA/UL Open Type = 0-50°C (32-122°F)
- Flange Mount Front: IP00/IP20, NEMA/UL Open Type = 0-50°C (32-122°F) • Flange Mount Back: IP66, NEMA/UL Type 4X = 0-40°C (32-104°F)
- IP54, NEMA/UL Type 12 = 0-40°C (32-104°F)
- Internal
- UL, CE, cUL, C-Tick, SEMI F47, GOST-R • TUV FS ISO/EN13849-1 (EN954-1) for Safe Torque-Off and Safe Speed Monitor options • ROHS compliant materials • Conformal Coating standard
- Light Duty Application (frames 8 and larger) • 110% - 60s
- Normal Duty Application • 110% - 60s, 150% - 3s
- Heavy Duty Application • 150% - 60s, 180% - 3s
- 0...325 Hz @ 2 kHz PWM • 0...650 Hz @ 4 kHz PWM
- Local PowerFlex 750 Series HIMs • Remote PowerFlex 750 Series HIMs
- RSLogix 5000 • DriveExplorer • DriveTools SP
- RSLogix 5000 v19 Motion Instructions
- Embedded EtherNet/IP port • CIP Motion • ControlNet (Coax or Fiber) • DeviceNet • Remote I/O • RS485 DF1
- PROFIBUS DP • Modbus/TCP • HVAC (Modbus RTU) • Bluetooth
- Standard
- Up to 10 total (bipolar voltage or current)
- Up to 10 total (bipolar voltage or current)
- Up to 5 total
- Up to 31 total (24V DC or 115V AC)
- Up to 10 total (form C)
- Up to 10 total
- Standard (frames 2-5) Optional (frame 6-7)
- No
- Yes
- External option
- Safe Torque-Off SIL CL3, PLe, Cat 3
- Safe Speed Monitor SIL CL3, PLe, Cat 4

Found on page 56



PowerFlex 4M AC Drive

Providing users with powerful motor speed control in a compact, space saving design, the PowerFlex 4M AC drive is the smallest and most cost effective member of the PowerFlex family of drives.

Providing application flexibility, feed-through wiring and ease-of-programming this drive is ideal for machine level speed control, for applications requiring space savings and easy-to-use AC drives.

Ratings	100...120V: 0.2...1.1 kW / 0.25...1.5 Hp / 1.6...6 A
	200...240V: 0.2...7.5 kW / 0.25...10 Hp / 1.6...33 A
	380...480V: 0.4...11 kW / 0.5...15 Hp / 1.5...24 A
Motor Control	V/Hz control
Communications	Integral RS 485
User Interface	Integral programming keypad and local LED
Enclosures	IP20
Certifications	<ul style="list-style-type: none"> • UL • CE • cUL • C-Tick
Options	See pages 24... 31
Additional Information	PowerFlex 4M Technical Data, publication 22F-TD001 PowerFlex 4M User Manual, publication 22F-UM001

100...120V AC, Single-Phase Drives (50/60 Hz, No Brake)

Drive Ratings				IP20, NEMA/UL Open Type	w/Integral "S Type" EMC Filter
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.2	0.25	1.6	A	22F-V1P6N103	–
0.4	0.5	2.5	A	22F-V2P5N103	–
0.75	1	4.5	B	22F-V4P5N103	–
1.1	1.5	6	B	22F-V6P0N103	–

200...240V AC, Single-Phase Drives (50/60 Hz, No Brake)

Drive Ratings				IP20, NEMA/UL Open Type	w/Integral "S Type" EMC Filter
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.2	0.25	1.6	A	22F-A1P6N103	22F-A1P6N113
0.4	0.5	2.5	A	22F-A2P5N103	22F-A2P5N113
0.75	1	4.2	A	22F-A4P2N103	22F-A4P2N113
1.5	2	8	B	22F-A8P0N103	22F-A8P0N113
2.2	3	11	B	22F-A011N103	22F-A011N113

⊗ This filter is suitable for use with a cable length of up to 5 meters for class A environments and up to 1 meter for class B environments.

200...240V AC, Three-Phase Drives (50/60 Hz)

Drive Ratings				IP20, NEMA/UL Open Type	w/Integral "S Type" EMC Filter
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.2	0.25	1.6	A	22F-B1P6N103	–
0.4	0.5	2.5	A	22F-B2P5N103	–
0.75	1	4.2	A	22F-B4P2N103	–
1.5	2	8	A	22F-B8P0N103	–
2.2	3	12	B	22F-B012N103	–
3.7	5	17.5	B	22F-B017N103	–
w/Brake					
5.5	7.5	25	C	22F-B025N104	–
7.5	10	33	C	22F-B033N104	–

380...480V AC, Three-Phase Drives (50/60 Hz)

Drive Ratings				IP20, NEMA/UL Open Type	w/Integral "S Type" EMC Filter ☼
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.4	0.5	1.5	A	22F-D1P5N103	22F-D1P5N113
0.75	1	2.5	A	22F-D2P5N103	22F-D2P5N113
1.5	2	4.2	A	22F-D4P2N103	22F-D4P2N113
2.2	3	6	B	22F-D6P0N103	22F-D6P0N113
3.7	5	8.7	B	22F-D8P7N103	22F-D8P7N113
w/Brake					
5.5	7.5	13	C	22F-D013N104	22F-D013N114
7.5	10	18	C	22F-D018N104	22F-D018N114
11	15	24	C	22F-D024N104	22F-D024N114

☼ This filter is suitable for use with a cable length of up to 10 meters for Class A environments.



PowerFlex 4 AC Drive

Designed to meet global OEM and end-user demands for simplicity, space savings, and cost efficiency, this drive provides intuitive features such as an integral keypad with local potentiometer and control keys that are active right out of the box.

Ratings	100...120V: 0.2...1.1 kW / 0.25...1.5 Hp / 1.5...6 A
	200...240V: 0.2...3.7 kW / 0.25...5 Hp / 1.4...17.5 A
	380...480V: 0.4...3.7 kW / 0.5...5 Hp / 1.4...8.7 A
Motor Control	V/Hz control
Communications	Integral RS 485
User Interface	Integral programming keypad and local LED
Enclosures	IP20
Certifications	<ul style="list-style-type: none"> • UL • CE • cUL • C-Tick
Options	See pages 24... 31
Additional Information	PowerFlex 4/40 Technical Data, publication 22-TD001 PowerFlex 4 User Manual, publication 22A-UM001

100...120V AC, Single-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20/NEMA Type Open	IP20 Flange Mount *
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.2	0.25	1.5	A	22A-V1P5N104	22A-V1P5F104
0.4	0.5	2.3	A	22A-V2P3N104	22A-V2P3F104
0.75	1	4.5	B	22A-V4P5N104	22A-V4P5F104
1.1	1.5	6	B	22A-V6P0N104	22A-V6P0F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.

200...240V AC, Single-Phase Drives (50/60 Hz, No Brake)

Drive Ratings				IP20/NEMA Type Open	IP20 Flange Mount*
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
w/Integral "S Type" EMC Filter ☼					
0.2	0.25	1.4	A	22A-A1P4N113	—
0.4	0.5	2.1	A	22A-A2P1N113	—
0.75	1	3.6	A	22A-A3P6N113	—
1.5	2	6.8	B	22A-A6P8N113	—
2.2	3	9.6	B	22A-A9P6N113	—
No Filter					
0.2	0.25	1.4	A	22A-A1P4N103	—
0.4	0.5	2.1	A	22A-A2P1N103	—
0.75	1	3.6	A	22A-A3P6N103	—
1.5	2	6.8	B	22A-A6P8N103	—
2.2	3	9.6	B	22A-A9P6N103	—

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.

☼ This filter is suitable for use with a cable length of up to 10 meters for Class A and 1 meter for Class B environments.

200...240V AC, Single-Phase Drives (50/60 Hz)

Drive Ratings				IP20/NEMA Type Open	IP20 Flange Mount*
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
w/Integral "S Type" EMC Filter ☼					
0.2	0.25	1.5	A	22A-A1P5N114	–
0.4	0.5	2.3	A	22A-A2P3N114	–
0.75	1	4.5	A	22A-A4P5N114	–
1.5	2	8	B	22A-A8P0N114	–
No Filter					
0.2	0.25	1.5	A	22A-A1P5N104	22A-A1P5F104
0.4	0.5	2.3	A	22A-A2P3N104	22A-A2P3F104
0.75	1	4.5	A	22A-A4P5N104	22A-A4P5F104
1.5	2	8	B	22A-A8P0N104	22A-A8P0F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.

☼ This filter is suitable for use with a cable length of up to 10 meters for Class A and 1 meter for Class B environments.

200...240V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20/NEMA Type Open	IP20 Flange Mount*
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.2	0.25	1.5	A	22A-B1P5N104	22A-B1P5F104
0.4	0.5	2.3	A	22A-B2P3N104	22A-B2P3F104
0.75	1	4.5	A	22A-B4P5N104	22A-B4P5F104
1.5	2	8	A	22A-B8P0N104	22A-B8P0F104
2.2	3	12	B	22A-B012N104	22A-B012F104
3.7	5	17.5	B	22A-B017N104	22A-B017F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.

380...480V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20/NEMA Type Open	IP20 Flange Mount*
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.
		A			
0.4	0.5	1.4	A	22A-D1P4N104	22A-D1P4F104
0.75	1	2.3	A	22A-D2P3N104	22A-D2P3F104
1.5	2	4	A	22A-D4P0N104	22A-D4P0F104
2.2	3	6	B	22A-D6P0N104	22A-D6P0F104
3.7	5	8.7	B	22A-D8P7N104	22A-D8P7F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.



PowerFlex 40 AC Drive

The PowerFlex 40 AC drive gives OEMs, machine builders and end users performance-enhancing motor control in an easy-to-use, compact package. The PowerFlex 40 features sensorless vector control to meet low speed torque demands helping to improve application performance.

With flexible packaging options and an uncomplicated programming structure, this drive can be quickly and easily installed and configured for a variety of applications.

Ratings	100...120V: 0.4...1.1 kW / 0.5...1.5 Hp / 2.3...6 A
	200...240V: 0.4...7.5 kW / 0.5...10 Hp / 2.3...33 A
	380...480V: 0.4...11 kW / 0.5...15 Hp / 1.4...24 A
	500...600V: 0.75...11 kW / 1...15 Hp / 1.7...19 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Sensorless Vector Control
Communications	Integral RS 485, Common Industrial Protocol
User Interface	Integral programming keypad and local LED
Enclosures	IP20, IP30, IP66/NEMA 4X
Certifications	<ul style="list-style-type: none"> UL CE cUL C-Tick
Options	See pages 24... 31
Additional Information	PowerFlex 4/40 Technical Data, publication 22-TD001 PowerFlex 40 User Manual, publication 22B-UM001

100...120V AC, Single-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20, NEMA/UL Type Open	IP20 Flange Mount *	IP66, NEMA/UL Type 4X
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.4	0.5	2.3	B	22B-V2P3N104	22B-V2P3F104	22B-V2P3C104
0.75	1	5	B	22B-V5P0N104	22B-V5P0F104	22B-V5P0C104
1.1	1.5	6	B	22B-V6P0N104	22B-V6P0F104	22B-V6P0C104

* Meets IP40/54/65 (NEMA/UL Type 1/12/4/4X) when installed in an enclosure of like rating.

200...240V AC, Single-Phase Drives (50/60 Hz)

Drive Ratings				IP20, NEMA/UL Type Open	IP20 Flange Mount ✱	IP66, NEMA/UL Type 4X
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
w/Integral “S Type” EMC Filter ☼						
0.4	0.5	2.3	B	22B-A2P3N114	–	–
0.75	1	5	B	22B-A5P0N114	–	–
1.5	2	8	B	22B-A8P0N114	–	–
2.2	3	12	C	22B-A012N114	–	–
No Filter						
0.4	0.5	2.3	B	22B-A2P3N104	22B-A2P3F104	22B-A2P3C104
0.75	1	5	B	22B-A5P0N104	22B-A5P0F104	22B-A5P0C104
1.5	2	8	B	22B-A8P0N104	22B-A8P0F104	22B-A8P0C104
2.2	3	12	C	22B-A012N104	22B-A012F104	–

* Meets IP40/54/65 (NEMA/UL Type 1/12/4/4X) when installed in an enclosure of like rating.

☼ This filter is suitable for use with a cable length of up to 10 meters for Class A and 1 meter for Class B environments.

200...240V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20, NEMA/UL Type Open	IP20 Flange Mount *	IP66, NEMA/UL Type 4X
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.4	0.5	2.3	B	22B-B2P3N104	22B-B2P3F104	22B-B2P3C104
0.75	1	5	B	22B-B5P0N104	22B-B5P0F104	22B-B5P0C104
1.5	2	8	B	22B-B8P0N104	22B-B8P0F104	22B-B8P0C104
2.2	3	12	B	22B-B012N104	22B-B012F104	22B-B012C104
3.7	5	17.5	B	22B-B017N104	22B-B017F104	22B-B017C104
5.5	7.5	24	C	22B-B024N104	22B-B024F104	–
7.5	10	33	C	22B-B033N104	22B-B033F104	–

* Meets IP40/54/65 (NEMA/UL Type 1/12/4/4X) when installed in an enclosure of like rating.

380...480V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20, NEMA/UL Type Open	IP20 Flange Mount *	IP66, NEMA/UL Type 4X
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.4	0.5	1.4	B	22B-D1P4N104	22B-D1P4F104	22B-D1P4C104
0.75	1	2.3	B	22B-D2P3N104	22B-D2P3F104	22B-D2P3C104
1.5	2	4	B	22B-D4P0N104	22B-D4P0F104	22B-D4P0C104
2.2	3	6	B	22B-D6P0N104	22B-D6P0F104	22B-D6P0C104
4	5	10.5	B	22B-D010N104	22B-D010F104	22B-D010C104
5.5	7.5	12	C	22B-D012N104	22B-D012F104	–
7.5	10	17	C	22B-D017N104	22B-D017F104	–
11	15	24	C	22B-D024N104	22B-D024F104 ‡	–

* Meets IP40/54/65 (NEMA/UL Type 1/12/4/4X) when installed in an enclosure of like rating.

‡ Requires use of external DC Bus inductor or AC Line Reactor.

500...600V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20, NEMA/UL Type Open	IP20 Flange Mount *	IP66, NEMA/UL Type 4X
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.75	1	1.7	B	22B-E1P7N104	22B-E1P7F104	22B-E1P7C104
1.5	2	3	B	22B-E3P0N104	22B-E3P0F104	22B-E3P0C104
2.2	3	4.2	B	22B-E4P2N104	22B-E4P2F104	22B-E4P2C104
4	5	6.6	B	22B-E6P6N104	22B-E6P6F104	22B-E6P6C104
5.5	7.5	9.9	C	22B-E9P9N104	22B-E9P9F104	–
7.5	10	12	C	22B-E012N104	22B-E012F104	–
11	15	19	C	22B-E019N104	22B-E019F104	–

* Meets IP40/54/65 (NEMA/UL Type 1/12/4/4X) when installed in an enclosure of like rating.



PowerFlex 40P AC Drive

The PowerFlex 40P AC drive addresses user needs for closed loop control with an option for Category 3 Safe Torque-off in a compact and cost effective design. Based on the popular PowerFlex 40 this drive is designed to meet global OEM and end-user demands for flexibility, space savings and ease of use. This drive is a cost-effective alternative for speed or basic position control of applications such as diverters, smart conveyors, packaging machines, palletizers, drafting machines, ring spinning machines and synthetic fiber spinning machines and shares common options and accessories with the PowerFlex 40.

Ratings	200...240V: 0.4...7.5 kW / 0.5...10 Hp / 2.3...33 A
	380...480V: 0.4...11 kW / 0.5...15 Hp / 1.4...24 A
	500...600V: 0.75...11 kW / 1...15 Hp / 1.7...19 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Sensorless Vector Control
Communications	Integral RS 485, Common Industrial Protocol
User Interface	4 digit display, 3 additional LED indicators and scroll/reset button, optional Remote Human Interface Modules (HIM) or PC interface for programming
Enclosures	IP20, IP30, Flange Mount
Safety	DriveGuard Safe Torque-Off / EN 954-1 Cat. 3
Additional Features	<ul style="list-style-type: none"> Speed control with and without encoder feedback Fiber application specific features StepLogic allows operation as an independent position controller
Certifications	<ul style="list-style-type: none"> UL CE (240 and 480V Ratings) cUL C-Tick TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option
Options	See pages 24... 31
Additional Information	PowerFlex 40P Technical Data PowerFlex 40P User Manual

200...240V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20/NEMA Type Open	IP20 Plate Drive	IP20 Flange Mount *
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.4	0.5	2.3	B	22D-B2P3N104	22D-B2P3H204	22D-B2P3F104
0.75	1	5	B	22D-B5P0N104	22D-B5P0H204	22D-B5P0F104
1.5	2	8	B	22D-B8P0N104	22D-B8P0H204	22D-B8P0F104
2.2	3	12	B	22D-B012N104	22D-B012H204	22D-B012F104
3.7	5	17.5	B	22D-B017N104	22D-B017H204	22D-B017F104
5.5	7.5	24	C	22D-B024N104	22D-B024H204	22D-B024F104
7.5	10	33	C	22D-B033N104	22D-B033H204	22D-B033F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.

380...480V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20/NEMA Type Open	IP20 Plate Drive	IP20 Flange Mount *
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.4	0.5	1.4	B	22D-D1P4N104	22D-D1P4H204	22D-D1P4F104
0.75	1	2.3	B	22D-D2P3N104	22D-D2P3H204	22D-D2P3F104
1.5	2	4	B	22D-D4P0N104	22D-D4P0H204	22D-D4P0F104
2.2	3	6	B	22D-D6P0N104	22D-D6P0H204	22D-D6P0F104
4	5	10.5	B	22D-D010N104	22D-D010H204	22D-D010F104
5.5	7.5	12	C	22D-D012N104	22D-D012H204	22D-D012F104
7.5	10	17	C	22D-D017N104	22D-D017H204	22D-D017F104
11	15	24	C	22D-D024N104	22D-D024H204	22D-D024F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.

500...600V AC, Three-Phase Drives (50/60 Hz, No Filter)

Drive Ratings				IP20/NEMA Type Open	IP20 Plate Drive	IP20 Flange Mount *
kW	Hp	Output Current	Frame Size	Cat. No.	Cat. No.	Cat. No.
		A				
0.75	1	1.7	B	22D-E1P7N104	22D-E1P7H204	22D-E1P7F104
1.5	2	3	B	22D-E3P0N104	22D-E3P0H204	22D-E3P0F104
2.2	3	4.2	B	22D-E4P2N104	22D-E4P2H204	22D-E4P2F104
4	5	6.6	B	22D-E6P6N004	22D-E6P6H204	22D-E6P6F104
5.5	7.5	9.9	C	22D-E9P9N104	22D-E9P9H204	22D-E9P9F104
7.5	10	12	C	22D-E012N104	22D-E012H204	22D-E012F104
11	15	19	C	22D-E019N104	22D-E019H204	22D-E019F104

* Meets IP40/54/65 (NEMA 1/12/4/4X) when installed in an enclosure of like rating.



PowerFlex 400 AC Drive

Providing users with easy installation and ideal for mechanical fan and pump systems, the PowerFlex 400 AC drive offers a wide range of built-in features allowing for seamless HVAC building system integration. The PowerFlex 400 is designed to meet global OEM, contractor and end-user demands for flexibility, space savings and ease-of-use.

Ratings	200...240V: 2.2...37 kW / 3...50 Hp / 12...145 A 380...480V: 2.2...250 kW / 3...350 Hp / 6...460 A
Motor Control	V/Hz control
Communications	Integral RS 485, Common Industrial Protocol
User Interface	Integral programming keypad and local LED
Enclosures	IP20, IP30
Additional Features	PID/ PIP for fan and pump applications
Certifications	<ul style="list-style-type: none"> • UL • IEC (Designed to Meet) • cUL • CE • C-Tick • UL508C Plenum Rating
Options	See pages 24... 31
Additional Information	PowerFlex 400 Technical Data, publication 22C-TD001 PowerFlex 400 User Manual, publication 22C-UM001

200...240V AC, Three-Phase Drives

Drive Ratings				Rating	Panel Mount	Flange Mount
kW	Hp	Output Current *	Frame Size		Cat. No.	Cat. No.
2.2	3	12	C	IP20, NEMA/UL Open Type ⌘	22C-B012N103	22C-B012F103
3.7	5	17.5	C	IP20, NEMA/UL Open Type ⌘	22C-B017N103	22C-B017F103
5.5	7.5	24	C	IP20, NEMA/UL Open Type ⌘	22C-B024N103	22C-B024F103
7.5	10	33	C	IP20, NEMA/UL Open Type ⌘	22C-B033N103	22C-B033F103
11	15	49	D	IP30, NEMA/UL Type 1	22C-B049A103	–
15	20	65	D	IP30, NEMA/UL Type 1	22C-B065A103	–
18.5	25	75	D	IP30, NEMA/UL Type 1	22C-B075A103	–
22	30	90	D	IP30, NEMA/UL Type 1	22C-B090A103	–
30	40	120	E	IP30, NEMA/UL Type 1	22C-B120A103	–
37	50	145	E	IP30, NEMA/UL Type 1	22C-B145A103	–

* Drive terminals are sized according to UL. Depending on operating ambient and wire used, some local or national codes may require a larger wire size than what the power terminals can accept. Multiple conductors, 90°C wire, and/or lugs may be required. Refer to the PowerFlex 400 *User Manual* for details on terminal block wire ranges.

⌘ IP30, NEMA/UL Type 1 can be achieved for panel mount drives with top cover and optional conduit box kit installed. Field installed conversion kit specified under User Installed Options.

380...480V AC, Three-Phase Drives

Drive Ratings				Rating	Panel Mount	Flange Mount
kW	Hp	Output Current *	Frame Size		Cat. No.	Cat. No.
		A				
2.2	3	6	C	IP20, NEMA/UL Open Type ⌘	22C-D6P0N103	22C-D6P0F103
4	5	10.5	C	IP20, NEMA/UL Open Type ⌘	22C-D010N103	22C-D010F103
5.5	7.5	12	C	IP20, NEMA/UL Open Type ⌘	22C-D012N103	22C-D012F103
7.5	10	17	C	IP20, NEMA/UL Open Type ⌘	22C-D017N103	22C-D017F103
11	15	22	C	IP20, NEMA/UL Open Type ⌘	22C-D022N103	22C-D022F103 ‡
15	20	30	C	IP20, NEMA/UL Open Type ⌘	22C-D030N103	22C-D030F103 ‡
18.5	25	38	D	IP30, NEMA/UL Type 1	22C-D038A103	–
22	30	45.5	D	IP30, NEMA/UL Type 1	22C-D045A103	–
30	40	60	D	IP30, NEMA/UL Type 1	22C-D060A103	–
37	50	72	E	IP30, NEMA/UL Type 1	22C-D072A103	–
45	60	88	E	IP30, NEMA/UL Type 1	22C-D088A103	–
55	75	105	E	IP30, NEMA/UL Type 1	22C-D105A103	–
75	100	142	E	IP30, NEMA/UL Type 1	22C-D142A103	–
90	125	170	F	IP30, NEMA/UL Type 1	22C-D170A103	–
110	150	208	F	IP30, NEMA/UL Type 1	22C-D208A103	–
132	200	260	G	IP30, NEMA/UL Type 1	22C-D260A103 §	–
160	250	310	G	IP30, NEMA/UL Type 1	22C-D310A103 §	–
200	300	370	H	IP30, NEMA/UL Type 1	22C-D370A103 §	–
250	350	460	H	IP30, NEMA/UL Type 1	22C-D460A103 §	–

* Drive terminals are sized according to UL. Depending on operating ambient and wire used, some local or national codes may require a larger wire size than what the power terminals can accept. Multiple conductors, 90°C wire, and/or lugs may be required. Refer to the PowerFlex 400 *User Manual* for details on terminal block wire ranges.

⌘ IP30, NEMA/UL Type 1 can be achieved for panel mount drives with top cover and optional conduit box kit installed. Field installed conversion kit specified under User Installed Options.

‡ 11 and 15 kW (15 and 20 Hp) Frame C flange mount drives require external DC series bus inductor.

§ 132...250 kW (200...350 Hp) have an integral AC bus choke.

PowerFlex 4-Class Options

Human Interface Modules and Accessories

Description	Cat. No.	Used with PowerFlex Drive				
		4M	4	40	40P	400
Remote (Panel Mount) LCD Display, Digital Speed Control, CopyCat Capable. IP66 (NEMA/UL Type 4X/12) Indoor Use Only. Includes 2.0 meter cable.	22-HIM-C2S §	✓	✓	✓	✓	✓
Remote Handheld, LCD Display, Full Numeric Keypad, Digital Speed Control, CopyCat Capable. IP30 (NEMA/UL Type 1). Includes 1.0 meter cable. Panel mount with optional Bezel Kit.	22-HIM-A3	✓	✓	✓	✓	✓
Remote Handheld, Wireless Interface Module with Bluetooth* Technology. IP30 (NEMA/UL Type 1). Panel Mount with optional Bezel Kit.	22-WIM-N1	✓	✓	✓	✓	✓
Remote (Panel Mount), Wireless Interface Module with Bluetooth Technology. IP66 (NEMA/UL Type 4X/12) Indoor Use Only.	22-WIM-N4S	✓	✓	✓	✓	✓
Bezel Kit. Panel Mount for LCD Display, Remote Handheld Unit. IP30 (NEMA/UL Type 1). Includes a 22-RJ45CBL-C20 cable.	22-HIM-B1	✓	✓	✓	✓	✓
DSI HIM Cable (DSI HIM to RJ45 cable)						
1.0 Meter (3.3 Feet) DSI HIM Cable (DSI HIM to RJ45 cable)	22-HIM-H10	✓	✓	✓	✓	✓
2.9 Meter (9.51 Feet) DSI HIM Cable (DSI HIM to RJ45 cable)	22-HIM-H30	✓	✓	✓	✓	✓

§ The 22-HIM-C2S is smaller than the 22-HIM-C2 and cannot be used as a direct replacement.

Safety Options

Description	Cat. No.	Used with PowerFlex Drive				
		4M	4	40	40P	400
DriveGuard Safe Torque-Off	20A-DG01				✓	

Other Options

Description	Cat. No.	Used with PowerFlex Drive				
		4M	4	40	40P	400
Auxiliary Relay Board - Expands drive output capabilities - Frames D-H only.	AK-U9-RLB1					✓

Terminators

Description *	Cat. No.	Used with PowerFlex Drive				
		4M	4	40	40P	400
for use with 3.7 kW (5 Hp) & below drives	1204-TFA1	✓	✓	✓	✓	✓
for use with 1.5 kW (2 Hp) & up drives	1204-TFB2	✓	✓	✓	✓	✓

* Refer to Appendix A of publication *DRIVES-IN001* for selection information.

Reflected Wave Reduction Modules w/Common Mode Choke

Description *	Cat. No.	Used with PowerFlex Drive				
		4M	4	40	40P	400
17A with Common Mode Choke	1204-RWC-17-A	✓	✓	✓	✓	✓

* Refer to Appendix A of publication *DRIVES-IN001* for selection information.

Reflected Wave Reduction Modules

Voltage	ND kW	ND Hp	Cat. No.	Used with PowerFlex Drive				
				4M	4	40	40P	400
380... 480V AC	2.2...4	3...5	1321-RWR8-DP	✓	✓	✓	✓	✓
	4	5	1321-RWR12-DP	✓		✓	✓	✓
	5.5	7.5	1321-RWR18-DP	✓		✓	✓	✓
	7.5	10	1321-RWR25-DP	✓		✓	✓	✓
	11	15	1321-RWR25-DP	✓		✓	✓	✓
	15	20	1321-RWR35-DP					✓
	18.5	25	1321-RWR45-DP					✓
	22	30	1321-RWR55-DP					✓
	30	40	1321-RWR80-DP					✓
	37	50	1321-RWR80-DP					✓
	45	60	1321-RWR100-DP					✓
	55	75	1321-RWR130-DP					✓
	75	100	1321-RWR160-DP					✓
	90	125	1321-RWR200-DP					✓
	110	150	1321-RWR250-DP					✓
500... 600V AC	149	200	1321-RWR320-DP					✓
	187	250	1321-RWR320-DP					✓
	4	5	1321-RWR8-EP			✓	✓	
	5.5	7.5	1321-RWR12-EP			✓	✓	
	7.5	10	1321-RWR18-EP			✓	✓	
	11	15	1321-RWR25-EP			✓	✓	

Communication Option Kits

Description	Cat. No.	Used with PowerFlex Drive				
		4M	4	40	40P	400
BACnet [®] MS/TP RS485 Communication Adapter	22-COMM-B		✓ ‡	✓ ♣		✓
ControlNet [™] Communication Adapter	22-COMM-C	✓ ‡	✓ ‡	✓ ♣	✓ ♣	✓
DeviceNet [™] Communication Adapter	22-COMM-D	✓ ‡	✓ ‡	✓ ♣	✓ ♣	✓
EtherNet/IP [™] Communication Adapter	22-COMM-E	✓ ‡	✓ ‡	✓ ♣	✓ ♣	✓
LonWorks [®] Communication Adapter	22-COMM-L		✓ ‡	✓ ♣	✓ ♣	✓
PROFIBUS [™] DP Communication Adapter	22-COMM-P	✓ ‡	✓ ‡	✓ ♣	✓ ♣	✓
Serial Converter Module (RS485 to RS232). Provides serial communication via DF1 protocol for use with DriveExplorer and DriveExecutive [™] software. Includes DSI to RS232 serial converter, 1203-SFC serial cable, 22-RJ45CBL-C20 cable, and DriveExplorer Lite CD.	22-SCM-232	✓	✓	✓	✓	✓
Serial Cable. 2.0 meter with a locking low profile connector. Connects the serial converter to a 9-pin sub-miniature D female computer connector.	1203-SFC	✓	✓	✓	✓	✓
Serial Null Modem Adapter. Use when connecting the serial converter to DriveExplorer on a handheld PC.	1203-SNM	✓	✓	✓	✓	✓
Universal Serial Bus [™] (USB) Converter includes 2m USB, 20-HIM-H10 & 22-HIM-H10 Cables	1203-USB	✓	✓	✓	✓	✓
DSI Cable. 2.0 meter RJ45 to RJ45 cable, male to male connectors.	22-RJ45CBL-C20	✓	✓	✓	✓	✓
Splitter Cable. RJ45 one to two port splitter cable.	AK-U0-RJ45-SC1	✓	✓	✓	✓	✓
Terminal Block. RJ45 two position terminal block (6 pieces) with two 120 Ohm terminating resistors (loose).	AK-U0-RJ45-TB2P	✓	✓	✓	✓	✓
Terminating Resistors. 120 Ohm resistor embedded in an RJ45 connector (2 pieces).	AK-U0-RJ45-TR1	✓	✓	✓	✓	✓
DSI External Communications Kit. External mounting kit for 22-COMM Communication Adapters.	22-XCOMM-DC-BASE	✓	✓	✓	✓	✓
External Communications Kit Power Supply Optional 100...240V AC Power Supply for External DSI Communications Kit.	20-XCOMM-AC-PS1	✓	✓	✓	✓	✓
Compact I/O Module (3 Channel)	1769-SM2	✓	✓	✓	✓	✓
Serial Flash Firmware Kit Updates drive firmware via computer.	AK-U9-FLSH1					✓
Communication Adapter Cover Houses the Communication Adapter for B & C Frame drives. Note: Cover adds 25 mm (0.98 in.) to the overall depth of the drive.						
Frame B Drive	22B-CCB			✓ ➤		
Frame C Drive	22B-CCC			✓ ➤		
Frame C Drive	22C-CCC					✓ ➤
Frame B Drive	22D-CCB				✓ ➤	
Frame C Drive	22D-CCC				✓ ➤	

‡ PowerFlex 4 & 4M drives require External DSI Communication Kits. Communication Adapters cannot be drive mounted.

♣ Requires a Communication Adapter Cover when used with Frame B & C PowerFlex 40/40P drives or Frame C PowerFlex 400 drives.

➤ If IP30, NEMA/UL Type 1 is required, a 22-JBCB (Frame B drives) or 22-JBCC (Frame C drives) must also be ordered.

IP30, NEMA/UL Type 1 Conversion Kit

Description	Frame	Cat. No.	Used with PowerFlex Drive				
			4M	4	40	40P	400
Converts IP20 drive to IP30, NEMA/UL Type 1 enclosure. Includes conduit box, mounting screws and plastic top panel.	A	22-JBAA		✓			
	B	22-JBAB		✓	✓	✓	
	C	22-JBAC			✓	✓	✓
Converts IP20 drive to IP30, NEMA/UL Type 1 enclosure. Includes communication option conduit box, mounting screws and plastic top panel.	B	22-JBCB			✓	✓	
	C	22-JBCC			✓	✓	✓

Dynamic Brakes Resistors

Drive Rating			Minimum Resistance	Resistance %	Cat. No. †	Used with PowerFlex Drive				
Voltage	kW	Hp	Ohms $\pm 10\%$	Ohms $\pm 5\%$		4M	4	40	40P	400
100...120V, 50/60 Hz, Single-Phase	0.2	0.25	48	91	AK-R2-091P500		✓			
	0.4	0.5	48	91	AK-R2-091P500		✓	✓		
	0.75	1	48	91	AK-R2-091P500		✓	✓		
	1.1	1.5	48	91	AK-R2-091P500			✓		
200...240V, 50/60 Hz, Single-Phase	0.2	0.25	48	91	AK-R2-091P500		✓			
	0.4	0.5	48	91	AK-R2-091P500		✓	✓		
	0.75	1	48	91	AK-R2-091P500		✓	✓		
	1.5	2	48	91	AK-R2-091P500		✓	✓		
	2.2	3	32	47	AK-R2-047P500			✓		
200...240V, 50/60 Hz, Three-Phase	0.2	0.25	48	91	AK-R2-091P500		✓			
	0.4	0.5	48	91	AK-R2-091P500		✓	✓	✓	
	0.75	1	48	91	AK-R2-091P500		✓	✓	✓	
	1.5	2	48	91	AK-R2-091P500		✓	✓	✓	
	2.2	3	32	47	AK-R2-047P500		✓	✓	✓	
	3.7	5	19	47	AK-R2-047P500		✓	✓	✓	
	5.5	7.5	13	30	AK-R2-030P1K2	✓		✓	✓	
	7.5	10	10	30	AK-R2-030P1K2	✓		✓	✓	
380...480V, 50/60 Hz, Three-Phase	0.4	0.5	97	360	AK-R2-360P500		✓	✓	✓	
	0.75	1	97	360	AK-R2-360P500		✓	✓	✓	
	1.5	2	97	360	AK-R2-360P500		✓	✓	✓	
	2.2	3	97	120	AK-R2-120P1K2		✓	✓	✓	
	4.0	5	77	120	AK-R2-120P1K2		✓	✓	✓	
	5.5	7.5	55	120	AK-R2-120P1K2	✓		✓	✓	
	7.5	10	39	120	AK-R2-120P1K2	✓		✓	✓	
500...600V, 50/60 Hz, Three-Phase	11	15	24	120	AK-R2-120P1K2 ❖	✓		✓	✓	
	0.75	1	120	360	AK-R2-360P500			✓	✓	
	1.5	2	120	360	AK-R2-360P500			✓	✓	
	2.2	3	82	120	AK-R2-120P1K2			✓	✓	
	4.0	5	82	120	AK-R2-120P1K2			✓	✓	
	5.5	7.5	51	120	AK-R2-120P1K2			✓	✓	
	7.5	10	51	120	AK-R2-120P1K2			✓	✓	
	11	15	51	120	AK-R2-120P1K2 ❖			✓	✓	

⌘ Verify resistor Ohms against minimum resistance for drive being used.

† Resistors listed are rated 5% duty cycle.

❖ Requires two resistors wired in parallel.

Spare Parts

	Description	Cat. No.	Used with PowerFlex Drive				
			4M	4	40	40P	400
Fan Replacement Kits	Fan Replacement Kit - Frame A	SK-U1-FAN1-A1		✓			
	Fan Replacement Kit - Frame B, 1 Fan	SK-U1-FAN1-B1		✓	✓	✓	
	Fan Replacement Kit - Frame B, 2 Fans	SK-U1-FAN2-B1		✓	✓	✓	
	Fan Replacement Kit - Frame A	SK-U1-FFAN1-A1	✓				
	Fan Replacement Kit - Frame B	SK-U1-FFAN1-B1	✓				
	Fan Replacement Kit - Frame C	SK-U1-FFAN1-C1	✓				
	Fan Replacement Kit - Frame C, 1 Fan	SK-U1-FAN1-C1			✓	✓	✓ *
	Fan Replacement Kit - Frame C, 1 Fan, 15 Hp	SK-U1-FAN1-C2			✓	✓	✓ ⚙
	Fan Replacement Kit, NEMA 4X	SK-U1-FAN1-B4			✓		
	Fan Replacement Kit - Frame D, 2 Fans, B049...B090 & D038...D060 Ratings	SK-U1-FAN2-D1					✓
	Fan Replacement Kit - Frame E, 2 Fans, B120...B145 & D072...D142 Ratings	SK-U1-FAN2-E2					✓
	Fan Replacement Kit - Frame F, 2 Fans, IGBT, D170 & D208 Ratings	SK-U1-FAN2-F1					✓
	Fan Replacement Kit - Frame F, 1 Fan, Rectifier, D170 & D208 Ratings	SK-U1-FAN1-F2					✓
	Fan Replacement Kit - Frame F, 1 Fan, Choke, D170 & D208 Ratings	SK-U1-FAN1-F3					✓
	Fan Replacement Kit - Frame G, 1 Fan (Side), D260 & D310 Ratings	SK-U1-FAN1-G1					✓
	Fan Replacement Kit - Frame G, 2 Fans (Top), D260 & D310 Ratings	SK-U1-FAN1-G2					✓
	Fan Replacement Kit - Frame G, 4 Fans (Bottom), D260 & D310 Ratings	SK-U1-FAN4-G3					✓
	Fan Replacement Kit - Frame H, 1 Fan (Upper Side), D370 & D460 Ratings	SK-U1-FAN1-H1					✓
	Fan Replacement Kit - Frame H, 1 Fan (Middle Side), D370 & D460 Ratings	SK-U1-FAN1-H2					✓
	Fan Replacement Kit - Frame H, 4 Fans (Bottom), D370 & D460 Ratings	SK-U1-FAN4-H3					✓
Covers	Encoder Terminal Cover (All Frames)	SK-U1-DCVR4-EN				✓	
	Frame A Cover with Power Terminal Guard	SK-U1-ACVR1-A1		✓			
	Frame B Cover with Power Terminal Guard	SK-U1-ACVR1-B1		✓			
	Frame A Cover	SK-U1-FCVR1-A1	✓				
	Frame B Cover	SK-U1-FCVR1-B1	✓				
	Frame C Cover	SK-U1-FCVR1-C1	✓				
	Frame B Cover with Power Terminal Guard	SK-U1-BCVR1-B1			✓		
	Frame C Cover with Power Terminal Guard	SK-U1-BCVR1-C1			✓		
	Frame B Cover, NEMA 4X	SK-U1-BCVR1-B4			✓		
	Frame B Cover with Power Terminal Guard	SK-U1-DCVR3-B1				✓	
	Frame C Cover with Power Terminal Guard	SK-U1-DCVR3-C1				✓	
	Frame C Cover with Power Terminal Guard	SK-U1-CCVR1-C1					✓
	Frame D Cover	SK-U1-CCVR1-D1					✓
	Frame E Cover	SK-U1-CCVR1-E1					✓
	Frame F Cover	SK-U1-CCVR1-F1					✓
	Frame G Cover	SK-U1-CCVR1-G1					✓
	Frame H Cover	SK-U1-CCVR1-H1					✓
	NEMA 4X Replacement Conduit Plugs	SK-U1-PLUGS-B4			✓		

* 3...10 HP @ 200...240V AC and 3...10 HP @ 380...480V AC

⚙ 15...20 HP @ 380...480V AC

EMC Filters (Required to Meet CE Certification)

Drive Ratings			PowerFlex 4M		PowerFlex 4		PowerFlex 40/40P		PowerFlex 400
Input Voltage	kW	Hp	S Type Filter	L Type Filter	S Type Filter	L Type Filter	S Type Filter	L Type Filter	IP00 (NEMA/UL Type Open)
			Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *
100...120V, 50/60 Hz, Single-Phase	0.2	0.25	–	22F-RF010-AL	–	22-RF010-AL	–	–	–
	0.4	0.5	–	22F-RF010-AL	–	22-RF010-AL	–	22-RF018-BL ♣	–
	0.75	1	–	22F-RF025-BL	–	22-RF018-BL	–	22-RF018-BL ♣	–
	1.1	1.5	–	22F-RF025-BL	–	22-RF025-CL §	–	22-RF018-BL ♣	–
200...240V, 50/60 Hz, Single-Phase	0.2	0.25	⊗	22F-RF010-AL	⊗	22-RF010-AL	–	–	–
	0.4	0.5	⊗	22F-RF010-AL	⊗	22-RF010-AL	⊗	22-RF018-BL ♣	–
	0.75	1	⊗	22F-RF010-AL	⊗	22-RF010-AL	⊗	22-RF018-BL ♣	–
	1.5	2	⊗	22F-RF025-BL	⊗	22-RF018-BL	⊗	22-RF018-BL ♣	–
	2.2	3	⊗	22F-RF025-BL	–	–	⊗	22-RF025-CL ♣	–
200...240V, 50/60 Hz, Single-Phase, NO BRAKE	0.2	0.25	–	–	⊗	22-RF010-AL	–	–	–
	0.4	0.5	–	–	⊗	22-RF010-AL	–	–	–
	0.75	1	–	–	⊗	22-RF010-AL	–	–	–
	1.5	2	–	–	⊗	22-RF018-BL	–	–	–
	2.2	3	–	–	⊗	22-RF025-CL §	–	–	–
200...240V, 50/60 Hz, Three-Phase	0.2	0.25	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	–	–	–
	0.4	0.5	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	22-RF021-BS ➤	22-RF021-BL	–
	0.75	1	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	22-RF021-BS ➤	22-RF021-BL	–
	1.5	2	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	22-RF021-BS ➤	22-RF021-BL	–
	2.2	3	22F-RF021-BS	22F-RF021-BL	22-RF021-BS	22-RF021-BL	22-RF021-BS ➤	22-RF021-BL	22-RF034-CS
	3.7	5	22F-RF021-BS	22F-RF021-BL	22-RF021-BS	22-RF021-BL	22-RF021-BS ➤	22-RF021-BL	22-RF034-CS
	5.5	7.5	22F-RF039-CS	22F-RF039-CL	–	–	22-RF034-CS	22-RF034-CL	22-RF034-CS
	7.5	10	22F-RF039-CS	22F-RF039-CL	–	–	22-RF034-CS	22-RF034-CL	22-RF034-CS
	11	15	–	–	–	–	–	–	22-RFD070
	15	20	–	–	–	–	–	–	22-RFD100
	18.5	25	–	–	–	–	–	–	22-RFD100
	22	30	–	–	–	–	–	–	22-RFD150
	30	40	–	–	–	–	–	–	22-RFD150
	37	50	–	–	–	–	–	–	22-RFD180
380...480V, 50/60 Hz, Three-Phase	0.4	0.5	22F-RF6P0-AS	22F-RF6P0-AL	22-RF5P7-AS	22-RF5P7-AL	22-RF012-BS	22-RF012-BL	–
	0.75	1	22F-RF6P0-AS	22F-RF6P0-AL	22-RF5P7-AS	22-RF5P7-AL	22-RF012-BS	22-RF012-BL	–
	1.5	2	22F-RF6P0-AS	22F-RF6P0-AL	22-RF5P7-AS	22-RF5P7-AL	22-RF012-BS	22-RF012-BL	–
	2.2	3	22F-RF012-BS	22F-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF018-CS
	3.7	5	22F-RF012-BS	22F-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF018-CS
	5.5	7.5	22F-RF026-CS	22F-RF026-CL	–	–	22-RF018-CS	22-RF018-CL	22-RF018-CS
	7.5	10	22F-RF026-CS	22F-RF026-CL	–	–	22-RF018-CS	22-RF018-CL	22-RF018-CS
	11	15	22F-RF026-CS	22F-RF026-CL	–	–	22-RF026-CS	22-RF026-CL	22-RF026-CS
	15	20	–	–	–	–	–	–	22-RFD036
	18.5	25	–	–	–	–	–	–	22-RFD050
	22	30	–	–	–	–	–	–	22-RFD050
	30	40	–	–	–	–	–	–	22-RFD070
	37	50	–	–	–	–	–	–	22-RFD100
	45	60	–	–	–	–	–	–	22-RFD100
	55	75	–	–	–	–	–	–	22-RFD150
	75	100	–	–	–	–	–	–	22-RFD180
	90	125	–	–	–	–	–	–	22-RFD208
	110	150	–	–	–	–	–	–	22-RFD208
	132	200	–	–	–	–	–	–	22-RFD323
	160	250	–	–	–	–	–	–	22-RFD480
	200	300	–	–	–	–	–	–	22-RFD480
	250	350	–	–	–	–	–	–	22-RFD480

Continued on next page

EMC Filters (continued)

Drive Ratings			PowerFlex 4M		PowerFlex 4		PowerFlex 40/40P		PowerFlex 400
Input Voltage	kW	Hp	S Type Filter	L Type Filter	S Type Filter	L Type Filter	S Type Filter	L Type Filter	IP00 (NEMA/UL Type Open)
			Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *
500...600V, 50/60 Hz, Three-Phase	0.75	1	–	–	–	–	–	22-RF8P0-BL	–
	1.5	2	–	–	–	–	–	22-RF8P0-BL	–
	2.2	3	–	–	–	–	–	22-RF8P0-BL	–
	4.0	5	–	–	–	–	–	22-RF8P0-BL	–
	5.5	7.5	–	–	–	–	–	22-RF015-CL	–
	7.5	10	–	–	–	–	–	22-RF015-CL	–
	11	15	–	–	–	–	–	22-RF024-CL	–

* This filter is suitable for use with a cable length of up to 10 meters for Class A and 1 meter for Class B environments.

⊗ Drives are available in these ratings with internal "S Type" filters.

‡ This filter is suitable for use with a cable length of up to 100 meters for Class A and 5 meters for Class B environments.

§ The piggyback mounting option cannot be used with Frame B PowerFlex 4 drives and Frame C EMC Line Filters.

♣ PowerFlex 40 Only.

➤ Filter must be Series B or later.

DC Series Bus Inductors

Drive Rating				Inductance	Cat. No.	Used with PowerFlex Drive				
Voltage	kW	Hp	Amps	mH		4M	4	40	40P	400
200...240V, 50/60 Hz, Three-Phase	2.2	3	12	1.00	1321-DC12-1					✓
	3.7	5	17.5	0.65	1321-DC18-1					✓
	5.5	7.5	32	0.85	1321-DC32-1			✓		✓
	7.5	10	40	0.75	1321-DC40-2			✓		✓
400...480V, 50/60 Hz, Three-Phase	2.2	3	6	2	1321-DC9-2					✓
	4.0	5	10.5	2.1	1321-DC12-2					✓
	5.5	7.5	18	3.75	1321-DC18-4			✓		✓
	7.5	10	25	1.28	1321-DC25-4			✓		✓
	11	15	32	2.68	1321-DC32-3			✓		✓
	15	20	30	2.5	1321-DC40-4					✓
500...600V, 50/60 Hz, Three-Phase	5.5	7.5	12	2.1	1321-DC12-2_600			✓		
	7.5	10	18	3.75	1321-DC18-4			✓		
	11	15	25	1.28	1321-DC25-4			✓		

Isolation Transformers for PowerFlex 400 - IP32, NEMA/UL Type 3R Standalone, 4...6% Nominal Impedance

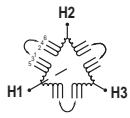


Diagram 1

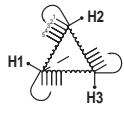
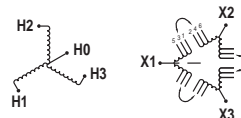
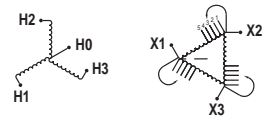


Diagram 2

Diagram 3
230V Primary, 460V Secondary OnlyDiagram 4
230V Primary, 460V Secondary Only

Rating		Wiring Diagram	208V, 60 Hz, Three-Phase Secondary	230V, 60 Hz, Three-Phase Secondary				460V, 60 Hz, Three-Phase Secondary		
			208V Primary	230V Primary	460V Primary	575V Primary	230V Primary	460V Primary	575V Primary	
kW	Hp		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	
2.2	3.0		1/3	1321-3TW005-XX	1321-3TW005-AA	1321-3TW005-BA	1321-3TW005-CA	1321-3TW005-AB	1321-3TW005-BB	1321-3TW005-CB
4.0	5.0	1/3	1321-3TW007-XX	1321-3TW007-AA	1321-3TW007-BA	1321-3TW007-CA	1321-3TW007-AB	1321-3TW007-BB	1321-3TW007-CB	
5.5	7.5	1/3	1321-3TW011-XX	1321-3TW011-AA	1321-3TW011-BA	1321-3TW011-CA	1321-3TW011-AB	1321-3TW011-BB	1321-3TW011-CB	
7.5	10	1/3	1321-3TW014-XX	1321-3TW014-AA	1321-3TW014-BA	1321-3TW014-CA	1321-3TW014-AB	1321-3TW014-BB	1321-3TW014-CB	
11	15	2/4	1321-3TW020-XX	1321-3TW020-AA	1321-3TW020-BA	1321-3TW020-CA	1321-3TW020-AB	1321-3TW020-BB	1321-3TW020-CB	
15	20	2/4	1321-3TW027-XX	1321-3TW027-AA	1321-3TW027-BA	1321-3TW027-CA	1321-3TW027-AB	1321-3TW027-BB	1321-3TW027-CB	
18.5	25	2/4	1321-3TW034-XX	1321-3TW034-AA	1321-3TW034-BA	1321-3TW034-CA	1321-3TW034-AB	1321-3TW034-BB	1321-3TW034-CB	
22	30	2/4	–	1321-3TW040-AA	1321-3TW040-BA	1321-3TW040-CA	1321-3TW040-AB	1321-3TW040-BB	1321-3TW040-CB	
30	40	2/4	–	1321-3TW051-AA	1321-3TW051-BA	1321-3TW051-CA	1321-3TW051-AB	1321-3TW051-BB	1321-3TW051-CB	
37	50	2/4	–	1321-3TH063-AA	1321-3TH063-BA	–	1321-3TH063-AB	1321-3TH063-BB	–	
45	60	2/4	–	–	–	–	1321-3TH075-AB	1321-3TH075-BB	–	
55	75	2/4	–	–	–	–	1321-3TH093-AB	1321-3TH093-BB	–	
75	100	2/4	–	–	–	–	1321-3TH118-AB	1321-3TH118-BB	–	
90	125	2/4	–	–	–	–	1321-3TH145-AB	1321-3TH145-BB	–	
110	150	2/4	–	–	–	–	1321-3TH175-AB	1321-3TH175-BB	–	
132	200	2/4	–	–	–	–	1321-3TH220-AB	1321-3TH220-BB	–	
160	250	2/4	–	–	–	–	1321-3TH275-AB	1321-3TH275-BB	–	
200	300	2/4	–	–	–	–	1321-3TH330-AB	1321-3TH330-BB	–	
250	350	2/4	–	–	–	–	1321-3TH440-AB	1321-3TH440-BB	–	

Input & Output Line Reactors - 3% Impedance

Voltage	Drive Ratings			IP00 * (NEMA/UL Open Type)	IP11 * (NEMA/UL Type 1)	Used with PowerFlex Drive				
	kW	Hp	Amps	Cat. No.	Cat. No.	4M	4	40	40P	400
200...240V, 60 Hz, Three-Phase	0.2	0.25	2.0	1321-3R2-A	–	✓	✓			
	0.4	0.5	4.0	1321-3R4-B	–	✓	✓	✓	✓	
	0.75	1	8.0	1321-3R8-B	–	✓	✓	✓	✓	
	1.5	2	8.0	1321-3R8-A	–	✓	✓	✓	✓	
	2.2	3	12	1321-3R12-A	1321-3RA12-A	✓	✓	✓	✓	✓
	3.7	5	17.5	1321-3R18-A	1321-3RA18-A	✓	✓	✓	✓	✓
	5.5	7.5	24	1321-3R25-A	1321-3RA25-A	✓		✓	✓	✓
	7.5	10	33	1321-3R35-A	1321-3RA35-A	✓		✓	✓	✓
	11	15	49	1321-3R45-A	1321-3RA45-A					✓
	15	20	65	1321-3R55-A	1321-3RA55-A					✓
	18.5	25	75	1321-3R80-A	1321-3RA80-A					✓
	22	30	90	1321-3R80-A	1321-3RA80-A					✓
	30	40	120	1321-3R100-A	1321-3RA100-A					✓
	37	50	145	1321-3R130-A	1321-3RA130-A					✓
380...480V, 60 Hz, Three-Phase	0.4	0.5	2.0	1321-3R2-B	–	✓	✓	✓	✓	
	0.75	1	4.0	1321-3R4-C	–	✓	✓	✓	✓	
	1.5	2	4.0	1321-3R4-B	–	✓	✓	✓	✓	
	2.2	3	6.0	1321-3R8-C	1321-3RA8-C	✓	✓	✓	✓	✓
	4.0	5	10.5	1321-3R8-B	1321-3RA8-B	✓	✓	✓	✓	✓
	5.5	7.5	12	1321-3R12-B	1321-3RA12-B	✓		✓	✓	✓
	7.5	10	17	1321-3R18-B	1321-3RA18-B	✓		✓	✓	✓
	11	15	22	1321-3R25-B	1321-3RA25-B	✓		✓	✓	✓
	15	20	30	1321-3R35-B	1321-3RA35-B					✓
	18.5	25	38	1321-3R35-B	1321-3RA35-B					✓
	22	30	45.5	1321-3R45-B	1321-3RA45-B					✓
	30	40	60	1321-3R55-B	1321-3RA55-B					✓
	37	50	72	1321-3R80-B	1321-3RA80-B					✓
	45	60	88	1321-3R80-B	1321-3RA80-B					✓
	55	75	105	1321-3R100-B	1321-3RA100-B					✓
	75	100	142	1321-3R130-B	1321-3RA130-B					✓
	90	125	170	1321-3R160-B	1321-3RA160-B					✓
	110	150	208	1321-3R200-B	1321-3RA200-B					✓
500...600V, 60 Hz, Three-Phase	0.75	1	2.0	1321-3R2-B	–			✓	✓	
	1.5	2	4.0	1321-3R4-C	–			✓	✓	
	2.2	3	4.0	1321-3R4-B	–			✓	✓	
	4.0	5	8.0	1321-3R8-C	–			✓	✓	
	5.5	7.5	12	1321-3R12-B	–			✓	✓	
	7.5	10	12	1321-3R12-B	–			✓	✓	
	11	15	18	1321-3R18-B	–			✓	✓	

* Catalog numbers listed are for 3% impedance. 5% impedance reactor types are also available. Refer to publication 1321-TD001....



PowerFlex 70 AC Drive

The PowerFlex 70 offers a compact package of power, control and operator interface, designed to meet the demands for space, simplicity and reliability. This drive provides a broad spectrum of features, allowing you to easily integrate it into your architecture and configure it for most application needs.

Ratings	200...240V: 0.37...18.5 kW / 0.5...25 Hp / 2.2...70 A
	380...480V: 0.37...37 kW / 0.5...50 Hp / 1.1...72 A
	500...600V: 0.37...37 kW / 0.5...50 Hp / 0.9...52 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Sensorless Vector Control Flux Vector Control
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP20, Flange Mount, IP66 / NEMA 4X
Safety	DriveGuard Safe Torque-Off / EN 954-1 Cat. 3
Additional Features	<ul style="list-style-type: none"> Speed and torque control with and without encoder feedback Pump and Traverse for Fibers application
Certifications	<ul style="list-style-type: none"> UL cUL IEC (Designed to Meet) CE C-Tick (excluding 600V) NSF Certified (IP66, NEMA/UL Type 4X/12 only) TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option RINA Certified ABS Lloyd's Register SEMI F47
Options	See pages 64... 86
Additional Information	PowerFlex 70 Technical Data, publication 20A-TD001 PowerFlex 70 User Manual, publication 20A-UM001

Panel Mount - IP 20, NEMA/UL Type 1, No HIM

200...240V AC, Three-Phase Drives

240V AC Input						208V AC Input ☼						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
2.2	2.4	3.3	0.5	0.33	20AB2P2A0AYNNNC0	2.5	2.7	3.7	0.37	0.25	20AB2P2A0AYNNNC0	N	A
2.2	2.4	3.3	0.5	0.33	20AB2P2A0AYNANC0	2.5	2.7	3.7	0.37	0.25	20AB2P2A0AYNANC0	Y	B
4.2	4.8	6.4	1	0.75	20AB4P2A0AYNNNC0	4.8	5.5	7.4	0.75	0.55	20AB4P2A0AYNNNC0	N	A
4.2	4.8	6.4	1	0.75	20AB4P2A0AYNANC0	4.8	5.5	7.4	0.75	0.55	20AB4P2A0AYNANC0	Y	B
6.8	9	12	2	1.5	20AB6P8A0AYNNNC0	7.8	10.3	13.8	1.5	1.1	20AB6P8A0AYNNNC0	N	B
6.8	9	12	2	1.5	20AB6P8A0AYNANC0	7.8	10.3	13.8	1.5	1.1	20AB6P8A0AYNANC0	Y	B
9.6	10.6	14.4	3	2	20AB9P6A0AYNNNC0	11	12.1	16.5	2.2	1.5	20AB9P6A0AYNNNC0	N	B
9.6	10.6	14.4	3	2	20AB9P6A0AYNANC0	11	12.1	16.5	2.2	1.5	20AB9P6A0AYNANC0	Y	B
15.3	17.4	23.2	5	3	20AB015A0AYNANC0	17.5	19.2	26.2	4	3	20AB015A0AYNANC0	Y	C
22	24.2	33	7.5	5	20AB022A0AYNANC0	25.3	27.8	37.9	5.5	4	20AB022A0AYNANC0	Y	D
28	33	44	10	7.5	20AB028A0AYNANC0	32.2	37.9	50.6	7.5	5.5	20AB028A0AYNANC0	Y	D
42	46.2	63	15	10	20AB042A0AYNANC0	43	55.5	74	11	7.5	20AB042A0AYNANC0	Y	D
54	63	84	20	15	20AB054A0AYNANC0	62.1	72.4	96.6	15	11	20AB054A0AYNANC0	Y	E
70	81	108	25	20	20AB070A0AYNANC0	78.2	93.1	124	18.5	15	20AB070A0AYNANC0	Y	E

* Drive must be programmed to lower voltage to obtain the currents shown.

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
1.1	1.2	1.6	0.5	0.33	20AD1P1A0AYNNNC0	1.3	1.4	1.9	0.37	0.25	20AC1P3A0AYNNNC0	N	A
1.1	1.2	1.6	0.5	0.33	20AD1P1A0AYNANC0	1.3	1.4	1.9	0.37	0.25	20AC1P3A0AYNANC0	Y	B
2.1	2.4	3.2	1	0.75	20AD2P1A0AYNNNC0	2.1	2.4	3.2	0.75	0.55	20AC2P1A0AYNNNC0	N	A
2.1	2.4	3.2	1	0.75	20AD2P1A0AYNANC0	2.1	2.4	3.2	0.75	0.55	20AC2P1A0AYNANC0	Y	B
3.4	4.5	6	2	1.5	20AD3P4A0AYNNNC0	3.5	4.5	6	1.5	1.1	20AC3P5A0AYNNNC0	N	A
3.4	4.5	6	2	1.5	20AD3P4A0AYNANC0	3.5	4.5	6	1.5	1.1	20AC3P5A0AYNANC0	Y	B
5	5.5	7.5	3	2	20AD5P0A0AYNNNC0	5	5.5	7.5	2.2	1.5	20AC5P0A0AYNNNC0	N	B
5	5.5	7.5	3	2	20AD5P0A0AYNANC0	5	5.5	7.5	2.2	1.5	20AC5P0A0AYNANC0	Y	B
8	8.8	12	5	3	20AD8P0A0AYNNNC0	8.7	9.9	13.2	4	3	20AC8P7A0AYNNNC0	N	B
8	8.8	12	5	3	20AD8P0A0AYNANC0	8.7	9.9	13.2	4	3	20AC8P7A0AYNANC0	Y	B
11	12.1	16.5	7.5	5	20AD011A0AYNANC0	11.5	13	17.4	5.5	4	20AC011A0AYNANC0	Y	C
14	16.5	22	10	7.5	20AD014A0AYNANC0	15.4	17.2	23.1	7.5	5.5	20AC015A0AYNANC0	Y	C
22	24.2	33	15	10	20AD022A0AYNANC0	22	24.2	33	11	7.5	20AC022A0AYNANC0	Y	D
27	33	44	20	15	20AD027A0AYNANC0	30	33	45	15	11	20AC030A0AYNANC0	Y	D
34	40.5	54	25	20	20AD034A0AYNANC0	37	45	60	18.5	15	20AC037A0AYNANC0	Y	D
40	51	68	30	25	20AD040A0AYNANC0	43	56	74	22	18.5	20AC043A0AYNANC0	Y	D
52	60	80	40	30	20AD052A0AYNANC0	60	66	90	30	22	20AC060A0AYNANC0	Y	E
65	78	104	50	40	20AD065A0AYNANC0	72	90	120	37	30	20AC072A0AYNANC0	Y	E

500...600V AC, Three-Phase Drives

600V AC Input							Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.		
Cont.	1 Min.	3 Sec.				with Filter	
0.9	1	1.4	0.5	0.33	20AE0P9A0AYNNNC0	N	A
1.7	1.9	2.6	1	0.75	20AE1P7A0AYNNNC0	N	A
2.7	3.6	4.8	2	1	20AE2P7A0AYNNNC0	N	A
3.9	4.3	5.8	3	1.5	20AE3P9A0AYNNNC0	N	B
6.1	6.7	9.1	5	3	20AE6P1A0AYNNNC0	N	B
9	9.9	13.5	7.5	5	20AE9P0A0AYNNNC0	N	C
11	13.5	18	10	7.5	20AE011A0AYNNNC0	N	C
17	18.7	25.5	15	10	20AE017A0AYNNNC0	N	D
22	25.5	34	20	15	20AE022A0AYNNNC0	N	D
27	33	44	25	20	20AE027A0AYNNNC0	N	D
32	40.5	54	30	25	20AE032A0AYNNNC0	N	D
41	48	64	40	30	20AE041A0AYNANC0	N	E
52	61.5	82	50	40	20AE052A0AYNANC0	N	E

Wall / Machine Mount - IP66, NEMA/UL Type 4X/12, with HIM, For Indoor Use**200...240V AC, Three-Phase Drives**

240V AC Input						208V AC Input ☼						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
2.2	2.4	3.3	0.5	0.33	20AB2P2C3AYNNNC0	2.5	2.7	3.7	0.37	0.25	20AB2P2C3AYNNNC0	N	B
2.2	2.4	3.3	0.5	0.33	20AB2P2C3AYNANC0	2.5	2.7	3.7	0.37	0.25	20AB2P2C3AYNANC0	Y	B
4.2	4.8	6.4	1	0.75	20AB4P2C3AYNNNC0	4.8	5.5	7.4	0.75	0.55	20AB4P2C3AYNNNC0	N	B
4.2	4.8	6.4	1	0.75	20AB4P2C3AYNANC0	4.8	5.5	7.4	0.75	0.55	20AB4P2C3AYNANC0	Y	B
6.8	9	12	2	1.5	20AB6P8C3AYNNNC0	7.8	10.3	13.8	1.5	1.1	20AB6P8C3AYNNNC0	N	B
6.8	9	12	2	1.5	20AB6P8C3AYNANC0	7.8	10.3	13.8	1.5	1.1	20AB6P8C3AYNANC0	Y	B
9.6	10.6	14.4	3	2	20AB9P6C3AYNNNC0	11	12.1	16.5	2.2	1.5	20AB9P6C3AYNNNC0	N	B
9.6	10.6	14.4	3	2	20AB9P6C3AYNANC0	11	12.1	16.5	2.2	1.5	20AB9P6C3AYNANC0	Y	B
15.3	17.4	23.2	5	3	20AB015C3AYNANC0	17.5	19.2	26.2	4	3	20AB015C3AYNANC0	Y	D
22	24.2	33	7.5	5	20AB022C3AYNANC0	25.3	27.8	37.9	5.5	4	20AB022C3AYNANC0	Y	D
28	33	44	10	7.5	20AB028C3AYNANC0	32.2	37.9	50.6	7.5	5.5	20AB028C3AYNANC0	Y	D
42	46.2	63	15	10	20AB042C3AYNANC0	43	55.5	74	11	7.5	20AB042C3AYNANC0	Y	D
54	63	84	20	15	20AB054C3AYNANC0	62.1	72.4	96.6	15	11	20AB054C3AYNANC0	Y	E
70	81	108	25	20	20AB070C3AYNANC0	78.2	93.1	124	18.5	15	20AB070C3AYNANC0	Y	E

✱ Drive must be programmed to lower voltage to obtain the currents shown.

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
1.1	1.2	1.6	0.5	0.33	20AD1P1C3AYNNNC0	1.3	1.4	1.9	0.37	0.25	20AC1P3C3AYNNNC0	N	B
1.1	1.2	1.6	0.5	0.33	20AD1P1C3AYNANC0	1.3	1.4	1.9	0.37	0.25	20AC1P3C3AYNANC0	Y	B
2.1	2.4	3.2	1	0.75	20AD2P1C3AYNNNC0	2.1	2.4	3.2	0.75	0.55	20AC2P1C3AYNNNC0	N	B
2.1	2.4	3.2	1	0.75	20AD2P1C3AYNANC0	2.1	2.4	3.2	0.75	0.55	20AC2P1C3AYNANC0	Y	B
3.4	4.5	6	2	1.5	20AD3P4C3AYNNNC0	3.5	4.5	6	1.5	1.1	20AC3P5C3AYNNNC0	N	B
3.4	4.5	6	2	1.5	20AD3P4C3AYNANC0	3.5	4.5	6	1.5	1.1	20AC3P5C3AYNANC0	Y	B
5	5.5	7.5	3	2	20AD5P0C3AYNNNC0	5	5.5	7.5	2.2	1.5	20AC5P0C3AYNNNC0	N	B
5	5.5	7.5	3	2	20AD5P0C3AYNANC0	5	5.5	7.5	2.2	1.5	20AC5P0C3AYNANC0	Y	B
8	8.8	12	5	3	20AD8P0C3AYNNNC0	8.7	9.9	13.2	4	3	20AC8P7C3AYNNNC0	N	B
8	8.8	12	5	3	20AD8P0C3AYNANC0	8.7	9.9	13.2	4	3	20AC8P7C3AYNANC0	Y	B
11	12.1	16.5	7.5	5	20AD011C3AYNANC0	11.5	13	17.4	5.5	4	20AC011C3AYNANC0	Y	D
14	16.5	22	10	7.5	20AD014C3AYNANC0	15.4	17.2	23.1	7.5	5.5	20AC015C3AYNANC0	Y	D
22	24.2	33	15	10	20AD022C3AYNANC0	22	24.2	33	11	7.5	20AC022C3AYNANC0	Y	D
27	33	44	20	15	20AD027C3AYNANC0	30	33	45	15	11	20AC030C3AYNANC0	Y	D
34	40.5	54	25	20	20AD034C3AYNANC0	37	45	60	18.5	15	20AC037C3AYNANC0	Y	D
40	51	68	30	25	20AD040C3AYNANC0	43	56	74	22	18.5	20AC043C3AYNANC0	Y	D
52	60	80	40	30	20AD052C3AYNANC0	60	66	90	30	22	20AC060C3AYNANC0	Y	E
65	78	104	50	40	20AD065C3AYNANC0	72	90	120	37	30	20AC072C3AYNANC0	Y	E

500...600V AC, Three-Phase Drives

600V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.		
Cont.	1 Min.	3 Sec.					
0.9	1	1.4	0.5	0.33	20AE0P9C3AYNNNC0	N	B
1.7	1.9	2.6	1	0.75	20AE1P7C3AYNNNC0	N	B
2.7	3.6	4.8	2	1	20AE2P7C3AYNNNC0	N	B
3.9	4.3	5.8	3	1.5	20AE3P9C3AYNNNC0	N	B
6.1	6.7	9.1	5	3	20AE6P1C3AYNNNC0	N	B
9	9.9	13.5	7.5	5	20AE9P0C3AYNNNC0	N	D
11	13.5	18	10	7.5	20AE011C3AYNNNC0	N	D
17	18.7	25.5	15	10	20AE017C3AYNNNC0	N	D
22	25.5	34	20	15	20AE022C3AYNNNC0	N	D
27	33	44	25	20	20AE027C3AYNNNC0	N	D
32	40.5	54	30	25	20AE032C3AYNNNC0	N	D
41	48	64	40	30	20AE041C3AYNANC0	N	E
52	61.5	82	50	40	20AE052C3AYNANC0	N	E

Wall / Machine Mount - IP54, NEMA/UL Type 12, with HIM

200...240V AC, Three-Phase Drives

240V AC Input					208V AC Input ☼					Cat. No.	with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Output Amps			Normal Duty kW	Heavy Duty kW			
Cont.	1 Min.	3 Sec.			Cont.	1 Min.	3 Sec.					
54	63	84	20	15	62.1	72.4	96.6	15	11	20AB054G3AYNANC0	Y	E
70	81	108	25	20	78.2	93.1	124	18.5	15	20AB070G3AYNANC0	Y	E

☼ Drive must be programmed to lower voltage to obtain the currents shown.

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
52	60	80	40	30	20AD052G3AYNANC0	60	66	90	30	22	20AC060G3AYNANC0	Y	E
65	78	104	50	40	20AD065G3AYNANC0	72	90	120	37	30	20AC072G3AYNANC0	Y	E

500...600V AC, Three-Phase Drives

600V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.		
Cont.	1 Min.	3 Sec.					
41	48	64	40	30	20AE041G3AYNANC0	Y	E
52	61.5	82	50	40	20AE052G3AYNANC0	Y	E

Flange Mount - Front Chassis = IP20, NEMA/UL Type 1, Heatsink = IP66, NEMA/UL Type 4X/12, No HIM**200...240V AC, Three-Phase Drives**

240V AC Input						208V AC Input ☼						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
2.2	2.4	3.3	0.5	0.33	20AB2P2F0AYNNNC0	2.5	2.7	3.7	0.37	0.25	20AB2P2F0AYNNNC0	N	A
2.2	2.4	3.3	0.5	0.33	20AB2P2F0AYNANC0	2.5	2.7	3.7	0.37	0.25	20AB2P2F0AYNANC0	Y	B
4.2	4.8	6.4	1	0.75	20AB4P2F0AYNNNC0	4.8	5.5	7.4	0.75	0.55	20AB4P2F0AYNNNC0	N	A
4.2	4.8	6.4	1	0.75	20AB4P2F0AYNANC0	4.8	5.5	7.4	0.75	0.55	20AB4P2F0AYNANC0	Y	B
6.8	9	12	2	1.5	20AB6P8F0AYNNNC0	7.8	10.3	13.8	1.5	1.1	20AB6P8F0AYNNNC0	N	B
6.8	9	12	2	1.5	20AB6P8F0AYNANC0	7.8	10.3	13.8	1.5	1.1	20AB6P8F0AYNANC0	Y	B
9.6	10.6	14.4	3	2	20AB9P6F0AYNNNC0	11	12.1	16.5	2.2	1.5	20AB9P6F0AYNNNC0	N	B
9.6	10.6	14.4	3	2	20AB9P6F0AYNANC0	11	12.1	16.5	2.2	1.5	20AB9P6F0AYNANC0	Y	B
15.3	17.4	23.2	5	3	20AB015F0AYNANC0	17.5	19.2	26.2	4	3	20AB015F0AYNANC0	Y	C
22	24.2	33	7.5	5	20AB022F0AYNANC0	25.3	27.8	37.9	5.5	4	20AB022F0AYNANC0	Y	D
28	33	44	10	7.5	20AB028F0AYNANC0	32.2	37.9	50.6	7.5	5.5	20AB028F0AYNANC0	Y	D
42	46.2	63	15	10	20AB042F0AYNANC0	43	55.5	74	11	7.5	20AB042F0AYNANC0	Y	D
54	63	84	20	15	20AB054F0AYNANC0	62.1	72.4	96.6	15	11	20AB054F0AYNANC0	Y	E
70	81	108	25	20	20AB070F0AYNANC0	78.2	93.1	124	18.5	15	20AB070F0AYNANC0	Y	E

✱ Drive must be programmed to lower voltage to obtain the currents shown.

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
1.1	1.2	1.6	0.5	0.33	20AD1P1F0AYNNNC0	1.3	1.4	1.9	0.37	0.25	20AC1P3F0AYNNNC0	N	A
1.1	1.2	1.6	0.5	0.33	20AD1P1F0AYNANC0	1.3	1.4	1.9	0.37	0.25	20AC1P3F0AYNANC0	Y	B
2.1	2.4	3.2	1	0.75	20AD2P1F0AYNNNC0	2.1	2.4	3.2	0.75	0.55	20AC2P1F0AYNNNC0	N	A
2.1	2.4	3.2	1	0.75	20AD2P1F0AYNANC0	2.1	2.4	3.2	0.75	0.55	20AC2P1F0AYNANC0	Y	B
3.4	4.5	6	2	1.5	20AD3P4F0AYNNNC0	3.5	4.5	6	1.5	1.1	20AC3P5F0AYNNNC0	N	A
3.4	4.5	6	2	1.5	20AD3P4F0AYNANC0	3.5	4.5	6	1.5	1.1	20AC3P5F0AYNANC0	Y	B
5	5.5	7.5	3	2	20AD5P0F0AYNNNC0	5	5.5	7.5	2.2	1.5	20AC5P0F0AYNNNC0	N	B
5	5.5	7.5	3	2	20AD5P0F0AYNANC0	5	5.5	7.5	2.2	1.5	20AC5P0F0AYNANC0	Y	B
8	8.8	12	5	3	20AD8P0F0AYNNNC0	8.7	9.9	13.2	4	3	20AC8P7F0AYNNNC0	N	B
8	8.8	12	5	3	20AD8P0F0AYNANC0	8.7	9.9	13.2	4	3	20AC8P7F0AYNANC0	Y	B
11	12.1	16.5	7.5	5	20AD011F0AYNANC0	11.5	13	17.4	5.5	4	20AC011F0AYNANC0	Y	C
14	16.5	22	10	7.5	20AD014F0AYNANC0	15.4	17.2	23.1	7.5	5.5	20AC015F0AYNANC0	Y	C
22	24.2	33	15	10	20AD022F0AYNANC0	22	24.2	33	11	7.5	20AC022F0AYNANC0	Y	D
27	33	44	20	15	20AD027F0AYNANC0	30	33	45	15	11	20AC030F0AYNANC0	Y	D
34	40.5	54	25	20	20AD034F0AYNANC0	37	45	60	18.5	15	20AC037F0AYNANC0	Y	D
40	51	68	30	25	20AD040F0AYNANC0	43	56	74	22	18.5	20AC043F0AYNANC0	Y	D
52	60	80	40	30	20AD052F0AYNANC0	60	66	90	30	22	20AC060F0AYNANC0	Y	E
65	78	104	50	40	20AD065F0AYNANC0	72	90	120	37	30	20AC072F0AYNANC0	Y	E

✱ Drive must be programmed to lower voltage to obtain the currents shown.

500...600V AC, Three-Phase Drives

600V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.		
Cont.	1 Min.	3 Sec.					
0.9	1	1.4	0.5	0.33	20AE0P9F0AYNNNC0	N	A
1.7	1.9	2.6	1	0.75	20AE1P7F0AYNNNC0	N	A
2.7	3.6	4.8	2	1	20AE2P7F0AYNNNC0	N	A
3.9	4.3	5.8	3	1.5	20AE3P9F0AYNNNC0	N	B
6.1	6.7	9.1	5	3	20AE6P1F0AYNNNC0	N	B
9	9.9	13.5	7.5	5	20AE9P0F0AYNNNC0	N	C
11	13.5	18	10	7.5	20AE011F0AYNNNC0	N	C
17	18.7	25.5	15	10	20AE017F0AYNNNC0	N	D
22	25.5	34	20	15	20AE022F0AYNNNC0	N	D
27	33	44	25	20	20AE027F0AYNNNC0	N	D
32	40.5	54	30	25	20AE032F0AYNNNC0	N	D
41	48	64	40	30	20AE041F0AYNANC0	N	E
52	61.5	82	50	40	20AE052F0AYNANC0	N	E



PowerFlex 700 AC Drive

The PowerFlex 700 offers outstanding performance in an easy-to-use drive that covers a wide range of horsepower ratings. This drive is designed to control three-phase induction motors in applications with requirements ranging from the simplest speed control to the most demanding torque control. The PowerFlex 700 offers application specific features and parameters for lifting, oil wells, and speed and positioning applications.

Ratings	200...240V: 0.37...75 kW / 0.5...100 Hp / 2.2...260 A
	380...480V: 0.37...500 kW / 0.5...700 Hp / 1.1...875 A
	500...600V: 0.75...132 kW / 1...150 Hp / 1.7...144 A
	690V: 45...132 kW / 50...150 Hp / 52...142 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Sensorless Vector Control Vector Control with FORCE Technology
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP00, IP20, IP54, Flange Mount
Additional Features	<ul style="list-style-type: none"> Speed and torque control with and without encoder feedback Position indexing and speed profiling Parameter linking functionality TorqProve for lifting applications Adjustable voltage for non-motor loads Position regulator and 16 step indexing table (with encoder feedback) Custom Firmware including Pump Off for oil well applications and Cascade fan/pump *
Certifications	<ul style="list-style-type: none"> UL cUL IEC (Designed to Meet) CE * C-Tick ATEX Certified RINA Certified, Frames 0...6 ABS, Frames 0...6 Lloyd's Register, Frames 0...6 SEMI F47, Frames 0...6
Options	See pages 64... 86
Additional Information	PowerFlex 700 Technical Data, publication 20B-TD001 PowerFlex 700 User Manual, publication 20B-UM002

* 600V class drives below 77 Amps (Frames 0-4) are declared to meet the Low Voltage Directive.

* Custom firmware is available factory installed or as an option kit. See page 67 for further information.

Wall Mount - IP20, NEMA/UL Type 1

200...240V AC, Three-Phase Drives

240V AC Input						208V AC Input *						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.2	2.4	3.3	0.5	0.33	20BB2P2A0AYNBNC0	2.5	2.8	3.8	0.37	—	20BB2P2A0AYNBNC0	0
4.2	4.8	6.4	1	0.75	20BB4P2A0AYNBNC0	4.8	5.6	7	0.75	0.37	20BB4P2A0AYNBNC0	0
6.8	9	12	2	1.5	20BB6P8A0AYNBNC0	7.8	10.4	13.8	1.5	0.75	20BB6P8A0AYNBNC0	1
9.6	10.6	14.4	3	2	20BB9P6A0AYNBNC0	11	12.1	17	2.2	1.5	20BB9P6A0AYNBNC0	1
15.3	16.8	23	5	3	20BB015A0AYNBNC0	17.5	19.3	26.3	4	2.2	20BB015A0AYNBNC0	1
22	24.2	33	7.5	5	20BB022A0AYNBNC0	25.3	27.8	38	5.5	4	20BB022A0AYNBNC0	1
28	33	44	10	7.5	20BB028A0AYNBNC0	32.2	38	50.6	7.5	5.5	20BB028A0AYNBNC0	2
42	46.2	63	15	10	20BB042A0AYNBNC0	48.3	53.1	72.5	11	7.5	20BB042A0AYNBNC0	3
52	63	80	20	15	20BB052A0AYNBNC0	56	64	86	15	11	20BB052A0AYNBNC0	3

Continued on next page

200...240V AC, Three-Phase Drives (continued)

240V AC Input						208V AC Input *						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
70	78	105	25	20	20BB070A0ANNANCO	78.2	86	117.3	18.5	15	20BB070A0ANNANCO	4 ½
80	105	136	30	25	20BB080A0ANNANCO	92	117.3	156.4	22	18.5	20BB080A0ANNANCO	4 ½
104 (80) *	115 (120)	175 (160)	40	30	20BB104A0ANNANCO	120 (92)	132 (138)	175 (175)	30	22	20BB104A0ANNANCO	5 ½
130 (104) *	143 (156)	175 (175)	50	40	20BB130A0ANNANCO	130 (104)	143 (156)	175 (175)	37	30	20BB130A0ANNANCO	5 ½
154 (130) *	169 (195)	231 (260)	60	50	20BB154A0ANNANCO	177 (150)	195 (225)	266 (300)	45	37	20BB154A0ANNANCO	6 ½
192 (154) *	211 (231)	288 (308)	75	60	20BB192A0ANNANCO	221 (177)	243 (266)	308 (308)	55	45	20BB192A0ANNANCO	6 ½
260 (205) *	286 (305)	390 (410)	100	75	20BB260A0ANNANCO	260 (205)	286 (305)	390 (410)	66	55	20BB260A0ANNANCO	6 ½

* Drive must be programmed to lower voltage to obtain the currents shown.

* These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Also available with internal Brake IGBT (20BxxxxA0A Y NANCO).

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
1.1	1.2	1.6	0.5	0.33	20BD1P1A0AYNANCO	1.3	1.4	1.9	0.37	0.25	20BC1P3A0AYNANCO	0
2.1	2.4	3.2	1	0.75	20BD2P1A0AYNANCO	2.1	2.4	3.2	0.75	0.55	20BC2P1A0AYNANCO	0
3.4	4.5	6	2	1.5	20BD3P4A0AYNANCO	3.5	4.5	6	1.5	0.75	20BC3P5A0AYNANCO	0
5	5.5	7.5	3	2	20BD5P0A0AYNANCO	5	5.5	7.5	2.2	1.5	20BC5P0A0AYNANCO	0
8	8.8	12	5	3	20BD8P0A0AYNANCO	8.7	9.9	13.2	4	2.2	20BC8P7A0AYNANCO	0
11	12.1	16.5	7.5	5	20BD011A0AYNANCO	11.5	13	17.4	5.5	4	20BC011A0AYNANCO	0
14	16.5	22	10	7.5	20BD014A0AYNANCO	15.4	17.2	23.1	7.5	5.5	20BC015A0AYNANCO	1
22	24.2	33	15	10	20BD022A0AYNANCO	22	24.2	33	11	7.5	20BC022A0AYNANCO	1
27	33	44	20	15	20BD027A0AYNANCO	30	33	45	15	11	20BC030A0AYNANCO	2
34	40.5	54	25	20	20BD034A0AYNANCO	37	45	60	18.5	15	20BC037A0AYNANCO	2
40	51	68	30	25	20BD040A0AYNANCO	43	56	74	22	18.5	20BC043A0AYNANCO	3
52	60	80	40	30	20BD052A0AYNANCO	56	64	86	30	22	20BC056A0AYNANCO	3
65	78	104	50	40	20BD065A0AYNANCO	72	84	112	37	30	20BC072A0AYNANCO	3
77 (65) *	85 (98)	116 (130)	60	50	20BD077A0ANNANCO	85 (72)	94 (108)	128 (144)	45	37	20BC085A0ANNANCO	4 §
96 (77) *	106 (116)	144 (154)	75	60	20BD096A0ANNANCO	105 (85)	116 (128)	158 (170)	55	45	20BC105A0ANNANCO	5 §
125 (96) *	138 (144)	163 (168)	100	75	20BD125A0ANNANCO	125 (96)	138 (144)	163 (168)	55	45	20BC125A0ANNANCO	5 §
–	–	–	–	–	–	140 (105)	154 (157)	190 (190)	75	55	20BC140A0ANNANCO	5 §
156 (125) *	172 (188)	233 (250)	125	100	20BD156A0ANNANCO	170 (140)	187 (210)	255 (280)	90	75	20BC170A0ANNANCO	6 §
180 (156) *	198 (234)	270 (312)	150	125	20BD180A0ANNANCO	205 (170)	220 (255)	289 (313)	110	90	20BC205A0ANNANCO	6 §
248 (180) *	273 (270)	372 (360)	200	150	20BD248A0ANNANCO	260 (205)	286 (308)	390 (410)	132	110	20BC260A0ANNANCO	6 §
292 (263) *	322 (395)	438 (526)	250	200	20BD292A0ANNNNCO	292 (263)	322 (395)	438 (526)	160	150	20BC292A0ANNNNCO	7
325 (325) *	358 (488)	488 (650)	250	250	20BD325A0ANNNNCO	325 (325)	358 (488)	488 (650)	180	180	20BC325A0ANNNNCO	7
365 (325) *	402 (488)	548 (650)	300	250	20BD365A0ANNNNCO	365 (325)	402 (488)	548 (650)	200	180	20BC365A0ANNNNCO	8
415 (365) *	457 (548)	623 (730)	350	300	20BD415A0ANNNNCO	415 (365)	457 (548)	623 (730)	240	200	20BC415A0ANNNNCO	8
481 (415) *	530 (623)	722 (830)	400	350	20BD481A0ANNNNCO	481 (415)	530 (623)	722 (830)	280	240	20BC481A0ANNNNCO	8
535 (481) *	589 (722)	803 (962)	450	400	20BD535A0ANNNNCO	535 (481)	589 (722)	803 (962)	300	280	20BC535A0ANNNNCO	8
600 (535) *	660 (803)	900 (1070)	500	450	20BD600A0ANNNNCO	600 (535)	660 (803)	900 (1070)	350	300	20BC600A0ANNNNCO	8
730 (600) *	803 (900)	1095 (1200)	600	500	20BD730A0ANNNNCO	730 (600)	803 (900)	1095 (1200)	400	350	20BC730A0ANNNNCO	9
875 (700) *	963 (1050)	1313 (1400)	700	600	20BD875A0ANNNNCO	875 (700)	963 (1050)	1313 (1400)	500	400	20BC875A0ANNNNCO	10

* These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Also available with internal Brake IGBT (20BxxxxA0A Y NANCO).

500...690V AC, Three-Phase Drives

500...600V AC Input						690V AC Input						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
1.7	2	2.6	1	0.5	20BE1P7A0AYNANCO	–	–	–	–	–	–	0
2.7	3.6	4.8	2	1	20BE2P7A0AYNANCO	–	–	–	–	–	–	0
3.9	4.3	5.9	3	2	20BE3P9A0AYNANCO	–	–	–	–	–	–	0
6.1	6.7	9.2	5	3	20BE6P1A0AYNANCO	–	–	–	–	–	–	0
9	9.9	13.5	7.5	5	20BE9P0A0AYNANCO	–	–	–	–	–	–	0
11	13.5	18	10	7.5	20BE011A0AYNANCO	–	–	–	–	–	–	1
17	18.7	25.5	15	10	20BE017A0AYNANCO	–	–	–	–	–	–	1
22	25.5	34	20	15	20BE022A0AYNANCO	–	–	–	–	–	–	2
27	33	44	25	20	20BE027A0AYNANCO	–	–	–	–	–	–	2
32	40.5	54	30	25	20BE032A0AYNANCO	–	–	–	–	–	–	3
41	48	64	40	30	20BE041A0AYNANCO	–	–	–	–	–	–	3
52	61.5	82	50	40	20BE052A0AYNANCO	52 (46)	57 (69)	78 (92)	45	37.5	20BF052A0ANNANCO	3 ‡
62	78	104	60	50	20BE062A0ANNANCO	60 (52)	66 (78)	90 (104)	55	45	20BF060A0ANNANCO	4 ‡§
77 (63) *	85 (94)	116 (126)	75	60	20BE077A0ANNANCO	82 (60)	90 (90)	123 (120)	75	55	20BF082A0ANNANCO	5 §
99 (77) *	109 (116)	126 (138)	100	75	20BE099A0ANNANCO	98 (82)	108 (123)	127 (140)	90	75	20BF098A0ANNANCO	5 §
125 (99) *	138 (149)	188 (198)	125	100	20BE125A0ANNANCO	119 (98)	131 (147)	179 (196)	110	90	20BF119A0ANNANCO	6 §
144 (125) *	158 (188)	216 (250)	150	125	20BE144A0ANNANCO	142 (119)	156 (179)	213 (238)	132	110	20BF142A0ANNANCO	6 §

* These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

‡ 690V AC input drives are Frame 5.

§ Also available with internal Brake IGBT (20BxxxxA0A Y NANCO).

Open/Flange Mount

Front = IP00, NEMA/UL Type Open, Back/Heatsink = IP54, NEMA 12

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ☼			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ☼			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
96 (77)	106 (116)	144 (154)	75	60	20BD096F0ANNANCO	105 (85)	116 (128)	158 (170)	55	45	20BC105F0ANNANCO	5 ½
125 (96)	138 (144)	163 (168)	100	75	20BD125F0ANNANCO	125 (96)	138 (144)	163 (168)	55	45	20BC125F0ANNANCO	5 ½
—	—	—	—	—	—	140 (105)	154 (157)	190 (190)	75	55	20BC140F0ANNANCO	5 ½
156 (125)	172 (188)	233 (250)	125	100	20BD156F0ANNANCO	170 (140)	187 (210)	255 (280)	90	75	20BC170F0ANNANCO	6 ½
180 (156)	198 (234)	270 (312)	150	125	20BD180F0ANNANCO	205 (170)	220 (255)	289 (313)	110	90	20BC205F0ANNANCO	6 ½
248 (180)	273 (270)	372 (360)	200	150	20BD248F0ANNANCO	260 (205)	286 (308)	390 (410)	132	110	20BC260F0ANNANCO	6 ½
292 (263)	322 (395)	438 (526)	250	200	20BD292N0ANNNNCO	292 (263)	322 (395)	438 (526)	160	150	20BC292N0ANNNNCO	7
325 (325)	358 (488)	488 (650)	250	250	20BD325N0ANNNNCO	325 (325)	358 (488)	488 (650)	180	180	20BC325N0ANNNNCO	7
365 (325)	402 (488)	548 (650)	300	250	20BD365N0ANNNNCO	365 (325)	402 (488)	548 (650)	200	180	20BC365N0ANNNNCO	8
415 (365)	457 (548)	623 (730)	350	300	20BD415N0ANNNNCO	415 (365)	457 (548)	623 (730)	240	200	20BC415N0ANNNNCO	8
481 (415)	530 (623)	722 (830)	400	350	20BD481N0ANNNNCO	481 (415)	530 (623)	722 (830)	280	240	20BC481N0ANNNNCO	8
535 (481)	589 (722)	803 (962)	450	400	20BD535N0ANNNNCO	535 (481)	589 (722)	803 (962)	300	280	20BC535N0ANNNNCO	8
600 (535)	660 (803)	900 (1070)	500	450	20BD600N0ANNNNCO	600 (535)	660 (803)	900 (1070)	350	300	20BC600N0ANNNNCO	8
730 (600)	803 (900)	1095 (1200)	600	500	20BD730N0ANNNNCO	730 (600)	803 (900)	1095 (1200)	400	350	20BC730N0ANNNNCO	9
875 (700)	963 (1050)	1313 (1400)	700	600	20BD875N0ANNNNCO	875 (700)	963 (1050)	1313 (1400)	500	400	20BC875N0ANNNNCO	10

* These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Also available with internal Brake IGBT (20BxxxxFOA Y NANCO).

Roll-In

Front = IP00, NEMA/UL Type Open, Back/Heatsink = IP54, NEMA 12

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ⚡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ⚡			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
365 (325)	402 (488)	548 (650)	300	250	20BD365U0ANNNNC0	365 (325)	402 (488)	548 (650)	200	180	20BC365U0ANNNNC0	8
415 (365)	457 (548)	623 (730)	350	300	20BD415U0ANNNNC0	415 (365)	457 (548)	623 (730)	240	200	20BC415U0ANNNNC0	8
481 (415)	530 (623)	722 (830)	400	350	20BD481U0ANNNNC0	481 (415)	530 (623)	722 (830)	280	240	20BC481U0ANNNNC0	8
535 (481)	589 (722)	803 (962)	450	400	20BD535U0ANNNNC0	535 (481)	589 (722)	803 (962)	300	280	20BC535U0ANNNNC0	8
600 (535)	660 (803)	900 (1070)	500	450	20BD600U0ANNNNC0	600 (535)	660 (803)	900 (1070)	350	300	20BC600U0ANNNNC0	8
730 (600)	803 (900)	1095 (1200)	600	500	20BD730U0ANNNNC0	730 (600)	803 (900)	1095 (1200)	400	350	20BC730U0ANNNNC0	9

⚡ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

Stand-Alone/Wall Mount - IP54, NEMA 12

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ⚡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ⚡			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
96 (77)	106 (116)	144 (154)	75	60	20BD096G0ANNANCO	105 (85)	116 (128)	158 (170)	55	45	20BC105G0ANNANCO	5 ⚡
125 (96)	138 (144)	163 (168)	100	75	20BD125G0ANNANCO	125 (96)	138 (144)	163 (168)	55	45	20BC125G0ANNANCO	5 ⚡
–	–	–	–	–	–	140 (105)	154 (157)	190 (190)	75	55	20BC140G0ANNANCO	5 ⚡
156 (125)	172 (188)	233 (250)	125	100	20BD156G0ANNANCO	170 (140)	187 (210)	255 (280)	90	75	20BC170G0ANNANCO	6 ⚡
180 (156)	198 (234)	270 (312)	150	125	20BD180G0ANNANCO	205 (170)	220 (255)	289 (313)	110	90	20BC205G0ANNANCO	6 ⚡
248 (180)	273 (270)	372 (360)	200	150	20BD248G0ANNANCO	260 (205)	286 (308)	390 (410)	132	110	20BC260G0ANNANCO	6 ⚡

⚡ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Also available with internal Brake IGBT (20BxxxxG0A Y NANC0).



PowerFlex 700H AC Drive

The PowerFlex 700H drive is ideal for high power applications requiring speed control performance. This drive provides excellent torque at low speeds for demanding speed control applications and has configurable control modes for a wide variety of applications. The PowerFlex 700H also has an ATEX certified option for drives that operate in potentially explosive environments.

Ratings	380...480V: 132...1200 kW / 200...1900 Hp / 261...2150 A
	500...600V: 160...2000 kW / 250...900 Hp / 261...820 A
	690V: 160...2300 kW / 150...2400 Hp / 170...2250 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Sensorless Vector Control
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP21
Safety	DriveGuard Safe Torque-Off / EN954-1 Cat. 3
Certifications	<ul style="list-style-type: none"> UL cUL ATEX Certified with Safe Torque-Off IEC (Designed to Meet) - with Rittal Enclosure CE - with Rittal Enclosure C-Tick TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option
Options	See pages 64... 86
Additional Information	PowerFlex 700H Technical Data, publication 20C-TD001 PowerFlex 700H Installation Manual, publication PFLEX-IN006 PowerFlex 700H Programming Manual, publication 20C-PM001

IP21, NEMA Type 1

380...480V AC, Three-Phase Drives with 24V DC I/O

480V AC Input						400V AC Input						Frame Size
Output Amps *			Normal Duty Hp	Heavy Duty Hp	Cat. No. § ➤	Output Amps *			Normal Duty kW	Heavy Duty kW	Cat. No. § ➤	
Cont.	1 Min.	2 Sec. ⌘				Cont.	1 Min.	2 Sec. ⌘				
261 (205)	287 (308)	410 (410)	200	150	20CD261A0ANNBNA0	261 (205)	287 (308)	410 (410)	132	110	20CC261A0ANNBNA0	9
300 (245)	330 (368)	450 (490)	250	200	20CD300A0ANNBNA0	300 (245)	330 (368)	450 (490)	160	132	20CC300A0ANNBNA0	9
385 (300)	424 (450)	600 (600)	300	250	20CD385A0ANNBNA0	385 (300)	424 (450)	600 (600)	200	160	20CC385A0ANNBNA0	10
460 (385)	506 (578)	770 (770)	350	300	20CD460A0ANNBNA0	460 (385)	506 (578)	770 (770)	250	200	20CC460A0ANNBNA0	10
500 (420)	550 (630)	750 (840)	450	350	20CD500A0ANNBNA0	500 (420)	550 (630)	750 (840)	250	250	20CC500A0ANNBNA0	10
590 (520)	649 (780)	956 (956)	500	450	20CD590A0ANNBNA0	590 (520)	649 (780)	956 (956)	315	250	20CC590A0ANNBNA0	11
650 (590)	715 (885)	1062 (1062)	500	500	20CD650A0ANNBNA0	650 (590)	715 (885)	1062 (1062)	355	315	20CC650A0ANNBNA0	11
730 (650)	803 (975)	1095 (1170)	600	500	20CD730A0ANNBNA0	730 (650)	803 (975)	1095 (1170)	400	355	20CC730A0ANNBNA0	11
820 (730)	902 (1095)	1230 (1314)	700	600	20CD820A0ANNBNA0	820 (730)	902 (1095)	1230 (1314)	450	400	20CC820A0ANNBNA0	12
920 (820)	1012 (1230)	1380 (1476)	800	700	20CD920A0ANNBNA0	920 (820)	1012 (1230)	1380 (1476)	500	450	20CC920A0ANNBNA0	12
1030 (920)	1133 (1370)	1555 (1600)	900	800	20CD1K0A0ANNBNA0	1030 (920)	1133 (1370)	1555 (1600)	560	500	20CC1K0A0ANNBNA0	12
1150 (1030)	1265 (1545)	1620 (1620)	1000	900	20CD1K1A0ANNBNA0	1150 (1030)	1265 (1545)	1620 (1620)	630	560	20CC1K1A0ANNBNA0	13
1300 (1150)	1430 (1725)	2079 (2079)	1200	1000	20CD1K3A0ANNBNA0	1300 (1150)	1430 (1725)	2079 (2079)	710	630	20CC1K3A0ANNBNA0	13
1450 (1200)	1595 (1800)	2175 (2400)	1250	1000	20CD1K4A0ANNBNA0	1450 (1200)	1595 (1800)	2175 (2400)	800	710	20CC1K4A0ANNBNA0	13
1770 (1600)	1947 (2400)	2655 (2880)	1500	1400	20CD1K7A0ANNENA0	1770 (1600)	1947 (2400)	2655 (2880)	1000	900	20CC1K7A0ANNENA0	14
2150 (1940)	2365 (2910)	3225 (3492)	1900	1700	20CD2K1A0ANNENA0	2150 (1940)	2365 (2910)	3225 (3492)	1200	1100	20CC2K1A0ANNENA0	14

* These drives have dual current ratings; normal duty applications and heavy duty applications (in parenthesis). The drive may be operated at either rating.

⌘ The 2 sec. output current is only available at initial start or drive operating at light load.

§ Frames 10 & up include a Rittal enclosure.

➤ Drives listed do not include a Control and I/O option.

600...690V AC, Three-Phase Drives with 24V DC I/O

600V AC Input						690V AC Input						Frame Size
Output Amps *			Normal Duty Hp	Heavy Duty Hp	Cat. No. § ➤	Output Amps *			Normal Duty kW	Heavy Duty kW	Cat. No. § ➤	
Cont.	1 Min.	2 Sec. ⚡				Cont.	1 Min.	2 Sec. ⚡				
170 (144)	187 (216)	245 (245)	150	150	20CE170A0ANNBNA0	170 (144)	187 (216)	245 (245)	160	132	20CF170A0ANNBNA0	9
208 (170)	230 (250)	289 (289)	200	150	20CE208A0ANNBNA0	208 (170)	230 (250)	289 (289)	200	160	20CF208A0ANNBNA0	9
261 (208)	287 (312)	375 (375)	250	200	20CE261A0ANNBNA0	261 (208)	287 (312)	375 (375)	250	200	20CF261A0ANNBNA0	10
325 (261)	358 (392)	470 (470)	350	250	20CE325A0ANNBNA0	325 (261)	358 (392)	470 (470)	315	250	20CF325A0ANNBNA0	10
385 (325)	424 (488)	585 (585)	400	350	20CE385A0ANNBNA0	385 (325)	424 (488)	585 (585)	355	315	20CF385A0ANNBNA0	10
416 (325)	458 (488)	585 (585)	450	350	20CE416A0ANNBNA0	416 (325)	458 (488)	585 (585)	400	315	20CF416A0ANNBNA0	10
460 (385)	506 (578)	693 (693)	500	400	20CE460A0ANNBNA0	460 (385)	506 (578)	693 (693)	450	355	20CF460A0ANNBNA0	11
502 (460)	552 (690)	828 (828)	500	500	20CE502A0ANNBNA0	502 (460)	552 (690)	828 (828)	500	450	20CF502A0ANNBNA0	11
590 (502)	649 (753)	885 (904)	600	500	20CE590A0ANNBNA0	590 (502)	649 (753)	885 (904)	560	500	20CF590A0ANNBNA0	11
650 (590)	715 (885)	1062 (1062)	700	650	20CE650A0ANNBNA0	650 (590)	715 (885)	1062 (1062)	630	560	20CF650A0ANNBNA0	12
750 (650)	825 (975)	1170 (1170)	800	700	20CE750A0ANNBNA0	750 (650)	825 (975)	1170 (1170)	710	630	20CF750A0ANNBNA0	12
820 (750)	902 (975)	1170 (1170)	900	700	20CE820A0ANNBNA0	820 (750)	902 (975)	1170 (1170)	800	630	20CF820A0ANNBNA0	12
920 (820)	1012 (1230)	1380 (1410)	1000	900	20CE920A0ANNBNA0	920 (820)	1012 (1230)	1380 (1410)	900	800	20CF920A0ANNBNA0	13
1030 (920)	1133 (1380)	1545 (1755)	1100	1000	20CE1K0A0ANNBNA0	1030 (920)	1133 (1380)	1545 (1755)	1000	900	20CF1K0A0ANNBNA0	13
1180 (1030)	1298 (1463)	1755 (1755)	1300	1100	20CE1K1A0ANNBNA0	1180 (1030)	1298 (1463)	1755 (1755)	1100	1000	20CF1K1A0ANNBNA0	13
1500 (1300)	1650 (1950)	2250 (2340)	1600	1400	20CE1K5A0ANNENAO	1500 (1300)	1650 (1950)	2250 (2340)	1500	1300	20CF1K5A0ANNENAO	14
1900 (1500)	2090 (2250)	2700 (2700)	2000	1600	20CE1K9A0ANNENAO	1900 (1500)	2090 (2250)	2700 (2700)	1900	1500	20CF1K9A0ANNENAO	14
2250 (1900)	2475 (2782)	3335 (3335)	2400	2000	20CE2K2A0ANNENAO	2250 (1900)	2475 (2782)	3335 (3335)	2300	1900	20CF2K2A0ANNENAO	14

* These drives have dual current ratings; normal duty applications and heavy duty applications (in parenthesis). The drive may be operated at either rating.

☼ The 2 sec. output current is only available at initial start or drive operating at light load.

§ Frames 10 & up include a Rittal enclosure.

➤ Drives listed do not include a Control and I/O option.

IP20, NEMA Type 1, MCC**380...480V AC, Three-Phase Drives with 24V DC I/O**

480V AC Input						400V AC Input						Frame Size
Output Amps *			Normal Duty Hp	Heavy Duty Hp	Cat. No. ➤	Output Amps *			Normal Duty kW	Heavy Duty kW	Cat. No. ➤	
Cont.	1 Min.	2 Sec. ⚡				Cont.	1 Min.	2 Sec. ⚡				
385 (300)	424 (450)	600 (600)	300	250	20CD385B0ANNBNA0	385 (300)	424 (450)	600 (600)	200	160	20CD385B0ANNBNA0	10
460 (385)	506 (578)	770 (770)	350	300	20CD460B0ANNBNA0	460 (385)	506 (578)	770 (770)	250	200	20CD460B0ANNBNA0	10
500 (420)	550 (630)	750 (840)	450	350	20CD500B0ANNBNA0	500 (420)	550 (630)	750 (840)	250	250	20CD500B0ANNBNA0	10
590 (520)	649 (780)	956 (956)	500	450	20CD590B0ANNBNA0	590 (520)	649 (780)	956 (956)	315	250	20CD590B0ANNBNA0	11
650 (590)	715 (885)	1062 (1062)	500	500	20CD650B0ANNBNA0	650 (590)	715 (885)	1062 (1062)	355	315	20CD650B0ANNBNA0	11
730 (650)	803 (975)	1095 (1170)	600	500	20CD730B0ANNBNA0	730 (650)	803 (975)	1095 (1170)	400	355	20CD730B0ANNBNA0	11
820 (730)	902 (1095)	1230 (1314)	700	600	20CD820B0ANNBNA0	820 (730)	902 (1095)	1230 (1314)	450	400	20CD820B0ANNBNA0	12
920 (820)	1012 (1230)	1380 (1476)	800	700	20CD920B0ANNBNA0	920 (820)	1012 (1230)	1380 (1476)	500	450	20CD920B0ANNBNA0	12
1030 (920)	1133 (1370)	1555 (1600)	900	800	20CD1K0B0ANNBNA0	1030 (920)	1133 (1370)	1555 (1600)	560	500	20CD1K0B0ANNBNA0	12

* These drives have dual current ratings; normal duty applications and heavy duty applications (in parenthesis). The drive may be operated at either rating.

⚡ The 2 sec. output current is only available at initial start or drive operating at light load.

➤ Drives listed do not include a Control and I/O option.

600V AC, Three-Phase Drives with 24V DC I/O

600V AC Input						Frame Size
Output Amps ✱			Normal Duty Hp	Heavy Duty Hp	Cat. No. ➤	
Cont.	1 Min.	2 Sec. ⚡				
261 (208)	287 (312)	375 (375)	250	200	20CE261B0ANNBNA0	10
325 (261)	358 (392)	470 (470)	350	250	20CE325B0ANNBNA0	10
385 (325)	424 (488)	585 (585)	400	350	20CE385B0ANNBNA0	10
416 (325)	458 (488)	585 (585)	450	350	20CE416B0ANNBNA0	10
460 (385)	506 (578)	693 (693)	500	400	20CE460B0ANNBNA0	11
502 (460)	552 (690)	828 (828)	500	500	20CE502B0ANNBNA0	11
590 (502)	649 (753)	885 (904)	600	500	20CE590B0ANNBNA0	11
650 (590)	715 (885)	1062 (1062)	700	650	20CE650B0ANNBNA0	12
750 (650)	825 (975)	1170 (1170)	800	700	20CE750B0ANNBNA0	12
820 (750)	902 (975)	1170 (1170)	900	700	20CE820B0ANNBNA0	12

* These drives have dual current ratings; normal duty applications and heavy duty applications (in parenthesis). The drive may be operated at either rating.

⚡ The 2 sec. output current is only available at initial start or drive operating at light load.

➤ Drives listed do not include a Control and I/O option.

IP54, NEMA Type 12, Rittal

380...480V AC, Three-Phase Drives with 24V DC I/O

480V AC Input						400V AC Input						Frame Size
Output Amps *			Normal Duty Hp	Heavy Duty Hp	Cat. No. ➤	Output Amps *			Normal Duty kW	Heavy Duty kW	Cat. No. ➤	
Cont.	1 Min.	2 Sec. ⚡				Cont.	1 Min.	2 Sec. ⚡				
385 (300)	424 (450)	600 (600)	300	250	20CD385H0ANNBNA0	385 (300)	424 (450)	600 (600)	200	160	20CC385H0ANNBNA0	10
460 (385)	506 (578)	770 (770)	350	300	20CD460H0ANNBNA0	460 (385)	506 (578)	770 (770)	250	200	20CC460H0ANNBNA0	10
500 (420)	550 (630)	750 (840)	450	350	20CD500H0ANNBNA0	500 (420)	550 (630)	750 (840)	250	250	20CC500H0ANNBNA0	10
590 (520)	649 (780)	956 (956)	500	450	20CD590H0ANNBNA0	590 (520)	649 (780)	956 (956)	315	250	20CC590H0ANNBNA0	11
650 (590)	715 (885)	1062 (1062)	500	500	20CD650H0ANNBNA0	650 (590)	715 (885)	1062 (1062)	355	315	20CC650H0ANNBNA0	11
730 (650)	803 (975)	1095 (1170)	600	500	20CD730H0ANNBNA0	730 (650)	803 (975)	1095 (1170)	400	355	20CC730H0ANNBNA0	11
820 (730)	902 (1095)	1230 (1314)	700	600	20CD820H0ANNBNA0	820 (730)	902 (1095)	1230 (1314)	450	400	20CC820H0ANNBNA0	12
920 (820)	1012 (1230)	1380 (1476)	800	700	20CD920H0ANNBNA0	920 (820)	1012 (1230)	1380 (1476)	500	450	20CC920H0ANNBNA0	12
1030 (920)	1133 (1370)	1555 (1600)	900	800	20CD1K0H0ANNBNA0	1030 (920)	1133 (1370)	1555 (1600)	560	500	20CC1K0H0ANNBNA0	12
1150 (1030)	1265 (1545)	1620 (1620)	1000	900	20CD1K1H0ANNBNA0	1150 (1030)	1265 (1545)	1620 (1620)	630	560	20CC1K1H0ANNBNA0	13
1300 (1150)	1430 (1725)	2079 (2079)	1200	1000	20CD1K3H0ANNBNA0	1300 (1150)	1430 (1725)	2079 (2079)	710	630	20CC1K3H0ANNBNA0	13
1450 (1200)	1595 (1800)	2175 (2400)	1250	1000	20CD1K4H0ANNBNA0	1450 (1200)	1595 (1800)	2175 (2400)	800	710	20CC1K4H0ANNBNA0	13
1770 (1600)	1947 (2400)	2655 (2880)	1500	1400	20CD1K7H0ANNENNA0	1770 (1600)	1947 (2400)	2655 (2880)	1000	900	20CC1K7H0ANNENNA0	14
2150 (1940)	2365 (2910)	3225 (3492)	1900	1700	20CD2K1H0ANNENNA0	2150 (1940)	2365 (2910)	3225 (3492)	1200	1100	20CC2K1H0ANNENNA0	14

* These drives have dual current ratings; normal duty applications and heavy duty applications (in parenthesis). The drive may be operated at either rating.

⚡ The 2 sec. output current is only available at initial start or drive operating at light load.

➤ Drives listed do not include a Control and I/O option.

600...690V AC, Three-Phase Drives with 24V DC I/O

600V AC Input						690V AC Input						Frame Size
Output Amps *			Normal Duty Hp	Heavy Duty Hp	Cat. No. ➤	Output Amps *			Normal Duty kW	Heavy Duty kW	Cat. No. ➤	
Cont.	1 Min.	2 Sec. ⚡				Cont.	1 Min.	2 Sec. ⚡				
261 (208)	287 (312)	375 (375)	250	200	20CE261H0ANNBNA0	261 (208)	287 (312)	375 (375)	250	200	20CF261H0ANNBNA0	10
325 (261)	358 (392)	470 (470)	350	250	20CE325H0ANNBNA0	325 (261)	358 (392)	470 (470)	315	250	20CF325H0ANNBNA0	10
385 (325)	424 (488)	585 (585)	400	350	20CE385H0ANNBNA0	385 (325)	424 (488)	585 (585)	355	315	20CF385H0ANNBNA0	10
416 (325)	458 (488)	585 (585)	450	350	20CE416H0ANNBNA0	416 (325)	458 (488)	585 (585)	400	315	20CF416H0ANNBNA0	10
460 (385)	506 (578)	693 (693)	500	400	20CE460H0ANNBNA0	460 (385)	506 (578)	693 (693)	450	355	20CF460H0ANNBNA0	11
502 (460)	552 (690)	828 (828)	500	500	20CE502H0ANNBNA0	502 (460)	552 (690)	828 (828)	500	450	20CF502H0ANNBNA0	11
590 (502)	649 (753)	885 (904)	600	500	20CE590H0ANNBNA0	590 (502)	649 (753)	885 (904)	560	500	20CF590H0ANNBNA0	11
650 (590)	715 (885)	1062 (1062)	700	650	20CE650H0ANNBNA0	650 (590)	715 (885)	1062 (1062)	630	560	20CF650H0ANNBNA0	12
750 (650)	825 (975)	1170 (1170)	800	700	20CE750H0ANNBNA0	750 (650)	825 (975)	1170 (1170)	710	630	20CF750H0ANNBNA0	12
820 (750)	902 (975)	1170 (1170)	900	700	20CE820H0ANNBNA0	820 (750)	902 (975)	1170 (1170)	800	630	20CF820H0ANNBNA0	12
920 (820)	1012 (1230)	1380 (1410)	1000	900	20CE920H0ANNBNA0	920 (820)	1012 (1230)	1380 (1410)	900	800	20CF920H0ANNBNA0	13
1030 (920)	1133 (1380)	1545 (1755)	1100	1000	20CE1K0H0ANNBNA0	1030 (920)	1133 (1380)	1545 (1755)	1000	900	20CF1K0H0ANNBNA0	13
1180 (1030)	1298 (1463)	1755 (1755)	1300	1100	20CE1K1H0ANNBNA0	1180 (1030)	1298 (1463)	1755 (1755)	1100	1000	20CF1K1H0ANNBNA0	13
1500 (1300)	1650 (1950)	2250 (2340)	1600	1400	20CE1K5H0ANNENNA0	1500 (1300)	1650 (1950)	2250 (2340)	1500	1300	20CF1K5H0ANNENNA0	14
1900 (1500)	2090 (2250)	2700 (2700)	2000	1600	20CE1K9H0ANNENNA0	1900 (1500)	2090 (2250)	2700 (2700)	1900	1500	20CF1K9H0ANNENNA0	14
2250 (1900)	2475 (2782)	3335 (3335)	2400	2000	20CE2K2H0ANNENNA0	2250 (1900)	2475 (2782)	3335 (3335)	2300	1900	20CF2K2H0ANNENNA0	14

* These drives have dual current ratings; normal duty applications and heavy duty applications (in parenthesis). The drive may be operated at either rating.

⚡ The 2 sec. output current is only available at initial start or drive operating at light load.

➤ Drives listed do not include a Control and I/O option.



PowerFlex 700S AC Drive

The PowerFlex 700S offers optimized integration for the most demanding stand-alone and coordinated drive control and drive system applications. The PowerFlex 700S offers a DriveLogix option which combines the powerful performance and flexible control of PowerFlex AC drives with a high-performance Logix engine to produce a highly functional, cost-effective drive and control solution.

Ratings	200...240V: 0.75...66 kW / 1...100 Hp / 4.2...260 A
	380...480V: 0.75...800 kW / 1...1250 Hp / 2.1...1450 A
	500...600V: 0.75...1500 kW / 1...1600 Hp / 1.7...1500 A
	690V: 45...1500 kW / 50...1600 Hp / 77...1500 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Vector Control with FORCE Technology (with and without encoder) Permanent Magnet Motor Control
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP20, IP21
Safety	DriveGuard Safe Torque-Off / EN 954-1 Cat. 3
Additional Features	<ul style="list-style-type: none"> Integrated position loop for simple indexing to electronic line shaft applications SynchLink for high speed data transfer and synchronization Multiple motor feedback options DriveLogix
Certifications	<ul style="list-style-type: none"> UL cUL CE C-Tick IEC (Designed to Meet) TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option RINA, Frames 1...10
Options	See pages 64... 86
Additional Information	PowerFlex 700S Technical Data, publication 20D-TD002 PowerFlex 700S Installation Manual, publication PFLEX-IN006 PowerFlex 700S User Manual, publication 20D-UM006

IP20, NEMA/UL Type 1

200...240V AC, Three-Phase Drives

240V AC Input						208V AC Input *						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
4.2	4.8	6.4	1	0.75	20DB4P2A0EYNANANE	4.8	5.6	7	0.75	0.37	20DB4P2A0EYNANANE	1
6.8	9	12	2	1.5	20DB6P8A0EYNANANE	7.8	10.4	13.8	1.5	0.75	20DB6P8A0EYNANANE	1
9.6	10.6	14.4	3	2	20DB9P6A0EYNANANE	11	12.1	17	2.2	1.5	20DB9P6A0EYNANANE	1
15.3	16.8	23	5	3	20DB015A0EYNANANE	17.5	19.3	26.3	4	2.2	20DB015A0EYNANANE	1
22	24.2	33	7.5	5	20DB022A0EYNANANE	25.3	27.8	38	5.5	4	20DB022A0EYNANANE	1
28	33	44	10	7.5	20DB028A0EYNANANE	32.2	38	50.6	7.5	5.5	20DB028A0EYNANANE	2
42	46.2	63	15	10	20DB042A0EYNANANE	48.3	53.1	72.5	11	7.5	20DB042A0EYNANANE	3
52	63	80	20	15	20DB052A0EYNANANE	56	64	86	15	11	20DB052A0EYNANANE	3
70	78	105	25	20	20DB070A0ENNANANE	78.2	86	117.3	18.5	15	20DB070A0ENNANANE	4 §
80	105	136	30	25	20DB080A0ENNANANE	92	117.3	156.4	22	18.5	20DB080A0ENNANANE	4 §
104 (80) ※	115 (120)	175 (160)	40	30	20DB104A0ENNANANE	120 (92)	132 (138)	175 (175)	30	22	20DB104A0ENNANANE	5 §
130 (104) ※	143 (156)	175 (175)	50	40	20DB130A0ENNANANE	130 (104)	143 (156)	175 (175)	30	30	20DB130A0ENNANANE	5 §
154 (130) ※	169 (195)	231 (260)	60	50	20DB154A0ENNANANE	177 (150)	195 (225)	266 (300)	45	37	20DB154A0ENNANANE	6 §
192 (154) ※	211 (231)	288 (308)	75	60	20DB192A0ENNANANE	221 (177)	243 (266)	308 (308)	55	45	20DB192A0ENNANANE	6 §
260 (205) ※	286 (305)	390 (410)	100	75	20DB260A0ENNANANE	260 (205)	286 (305)	390 (410)	66	55	20DB260A0ENNANANE	6 §

* Drive must be programmed to lower voltage to obtain higher currents shown.

* These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Also available with internal Brake IGBT (20DxxxxA0E Y NANANE).

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	2.4	3.2	1	0.75	20DD2P1A0EYNANANE	2.1	2.4	3.2	0.75	0.55	20DC2P1A0EYNANANE	1
3.4	4.5	6	2	1.5	20DD3P4A0EYNANANE	3.5	4.5	6	1.5	0.75	20DC3P5A0EYNANANE	1
5	5.5	7.5	3	2	20DD5P0A0EYNANANE	5	5.5	7.5	2.2	1.5	20DC5P0A0EYNANANE	1
8	8.8	12	5	3	20DD8P0A0EYNANANE	8.7	9.9	13.2	4	2.2	20DC8P7A0EYNANANE	1
11	12.1	16.5	7.5	5	20DD011A0EYNANANE	11.5	13	17.4	5.5	4	20DC011A0EYNANANE	1
14	16.5	22	10	7.5	20DD014A0EYNANANE	15.4	17.2	23.1	7.5	5.5	20DC015A0EYNANANE	1
22	24.2	33	15	10	20DD022A0EYNANANE	22	24.2	33	11	7.5	20DC022A0EYNANANE	1
27	33	44	20	15	20DD027A0EYNANANE	30	33	45	15	11	20DC030A0EYNANANE	2
34	40.5	54	25	20	20DD034A0EYNANANE	37	45	60	18.5	15	20DC037A0EYNANANE	2
40	51	68	30	25	20DD040A0EYNANANE	43	56	74	22	18.5	20DC043A0EYNANANE	3
52	60	80	40	30	20DD052A0EYNANANE	56	64	86	30	22	20DC056A0EYNANANE	3
65	78	104	50	40	20DD065A0EYNANANE	72	84	112	37	30	20DC072A0EYNANANE	3
77 (65) ⌘	85 (98)	116 (130)	60	50	20DD077A0ENNANANE	85 (72)	94 (108)	128 (144)	45	37	20DC085A0ENNANANE	4 §
96 (77) ⌘	106 (116)	144 (154)	75	60	20DD096A0ENNANANE	105 (85)	116 (128)	158 (170)	55	45	20DC105A0ENNANANE	5 §
125 (96) ⌘	138 (144)	163 (168)	100	75	20DD125A0ENNANANE	125 (96)	138 (144)	163 (168)	55	45	20DC125A0ENNANANE	5 §
–	–	–	–	–	–	140 (105)	154 (158)	210 (210)	75	55	20DC140A0ENNANANE	5 §
156 (125) ⌘	172 (188)	233 (250)	125	100	20DD156A0ENNANANE	170 (140)	187 (210)	255 (280)	90	75	20DC170A0ENNANANE	6 §
180 (156) ⌘	198 (234)	270 (312)	150	125	20DD180A0ENNANANE	205 (170)	220 (255)	289 (313)	110	90	20DC205A0ENNANANE	6 §
248 (180) ⌘	273 (270)	372 (360)	200	150	20DD248A0ENNANANE	260 (205)	286 (308)	390 (410)	132	110	20DC260A0ENNANANE	6 §
261 (205) ⌘	287 (308)	410 (410)	200	150	20DD261A0ENNBANANE	261 (205)	287 (308)	410 (410)	132	110	20DC261A0ENNBANANE	9
300 (245) ⌘	330 (368)	450 (490)	250	200	20DD300A0ENNBANANE	300 (245)	330 (368)	450 (490)	160	130	20DC300A0ENNBANANE	9
385 (300) ⌘	424 (450)	600 (600)	300	250	20DD385A0ENNBANANE	385 (300)	424 (450)	600 (600)	200	160	20DC385A0ENNBANANE	10
460 (385) ⌘	506 (578)	770 (770)	350	300	20DD460A0ENNBANANE	460 (385)	506 (578)	770 (770)	250	200	20DC460A0ENNBANANE	10
500 (420) ⌘	550 (630)	750 (840)	450	350	20DD500A0ENNBANANE	500 (420)	550 (630)	750 (840)	250	250	20DC500A0ENNBANANE	10
590 (520) ⌘	649 (780)	956 (956)	500	450	20DD590A0ENNBANANE	590 (520)	649 (780)	956 (956)	315	250	20DC590A0ENNBANANE	11
650 (590) ⌘	715 (885)	1062 (1062)	500	500	20DD650A0ENNBANANE	650 (590)	715 (885)	1062 (1062)	355	315	20DC650A0ENNBANANE	11
730 (650) ⌘	803 (975)	1095 (1170)	600	500	20DD730A0ENNBANANE	730 (650)	803 (975)	1095 (1170)	400	355	20DC730A0ENNBANANE	11
820 (730) ⌘	902 (1095)	1230 (1314)	700	600	20DD820A0ENNBANANE	820 (730)	902 (1095)	1230 (1314)	450	400	20DC820A0ENNBANANE	12
920 (820) ⌘	1012 (1230)	1380 (1476)	800	700	20DD920A0ENNBANANE	920 (820)	1012 (1230)	1380 (1476)	500	450	20DC920A0ENNBANANE	12
1030 (920) ⌘	1133 (1370)	1555 (1600)	900	800	20DD1K0A0ENNBANANE	1030 (920)	1133 (1370)	1555 (1600)	560	500	20DC1K0A0ENNBANANE	12
1150 (1030) ⌘	1265 (1545)	1620 (1620)	1000	900	20DD1K1A0ENNBANANE	1150 (1030)	1265 (1545)	1620 (1620)	630	560	20DC1K1A0ENNBANANE	13
1300 (1150) ⌘	1430 (1725)	2079 (2079)	1200	1000	20DD1K3A0ENNBANANE	1300 (1150)	1430 (1725)	2079 (2079)	710	630	20DC1K3A0ENNBANANE	13
1450 (1200) ⌘	1595 (1800)	2175 (2400)	1250	1000	20DD1K4A0ENNBANANE	1450 (1200)	1595 (1800)	2175 (2400)	800	710	20DC1K4A0ENNBANANE	13

⌘ These drives have dual current ratings; one for normal duty applications, and one for heavy duty (in parenthesis). The drive may be operated at either rating.

§ Also available with internal Brake IGBT (20DxxxA0E Y NANANE).

500...690V AC, Three-Phase Drives

500...600V AC Input ⚡						690V AC Input ⚡						Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
1.7	2	2.6	1	0.5	20DE1P7A0EYNANANE	–	–	–	–	–	–	1
2.7	3.6	4.8	2	1	20DE2P7A0EYNANANE	–	–	–	–	–	–	1
3.9	4.3	5.9	3	2	20DE3P9A0EYNANANE	–	–	–	–	–	–	1
6.1	6.7	9.2	5	3	20DE6P1A0EYNANANE	–	–	–	–	–	–	1
9	9.9	13.5	7.5	5	20DE9P0A0EYNANANE	–	–	–	–	–	–	1
11	13.5	18	10	7.5	20DE011A0EYNANANE	–	–	–	–	–	–	1
17	18.7	25.5	15	10	20DE017A0EYNANANE	–	–	–	–	–	–	1
22	25.5	34	20	15	20DE022A0EYNANANE	–	–	–	–	–	–	2
27	33	44	25	20	20DE027A0EYNANANE	–	–	–	–	–	–	2
32	40.5	54	30	25	20DE032A0EYNANANE	–	–	–	–	–	–	3
41	48	64	40	30	20DE041A0EYNANANE	–	–	–	–	–	–	3
52	61.5	82	50	40	20DE052A0EYNANANE	52	57	78	50	40	20DF052A0ENNANANE	3 ➤
62	78	104	60	50	20DE062A0EYNANANE	60	66	90	55	45	20DF062A0ENNANANE	4 ➤ §
77 (63) ⚡	85 (94)	116 (126)	75	60	20DE077A0ENNANANE	82 (60)	90 (90)	120 (123)	75	55	20DF082A0ENNANANE	5 §
99 (77) ⚡	109 (116)	126 (138)	100	75	20DE099A0ENNANANE	98 (82)	108 (123)	127 (140)	90	75	20DF098A0ENNANANE	5 §
125 (99) ⚡	138 (149)	188 (198)	125	100	20DE125A0ENNANANE	119 (98)	131 (147)	179 (196)	110	90	20DF119A0ENNANANE	6 §
144 (125) ⚡	158 (188)	216 (250)	150	125	20DE144A0ENNANANE	142 (119)	156 (179)	213 (238)	132	110	20DF142A0ENNANANE	6 §
170 (144) ⚡	187 (216)	245 (245)	150	150	20DE170A0ENNBANANE	170 (144)	187 (216)	245 (245)	160	132	20DF170A0ENNBANANE	9
208 (170) ⚡	230 (250)	289 (289)	200	150	20DE208A0ENNBANANE	208 (170)	230 (250)	289 (289)	200	160	20DF208A0ENNBANANE	9
261 (208) ⚡	287 (312)	375 (375)	250	200	20DE261A0ENNBANANE	261 (208)	287 (312)	375 (375)	250	200	20DF261A0ENNBANANE	10
325 (261) ⚡	358 (392)	470 (470)	350	250	20DE325A0ENNBANANE	325 (261)	358 (392)	470 (470)	315	250	20DF325A0ENNBANANE	10
385 (325) ⚡	424 (488)	585 (585)	400	350	20DE385A0ENNBANANE	385 (325)	424 (488)	585 (585)	355	315	20DF385A0ENNBANANE	10
416 (325) ⚡	458 (488)	585 (585)	450	350	20DE416A0ENNBANANE	416 (325)	458 (488)	585 (585)	400	315	20DF416A0ENNBANANE	10
460 (385) ⚡	506 (578)	693 (693)	450	400	20DE460A0ENNBANANE	460 (385)	506 (578)	693 (693)	450	355	20DF460A0ENNBANANE	11
502 (460) ⚡	552 (690)	828 (828)	500	450	20DE502A0ENNBANANE	502 (460)	552 (690)	828 (828)	500	450	20DF502A0ENNBANANE	11
590 (502) ⚡	649 (753)	904 (904)	600	500	20DE590A0ENNBANANE	590 (502)	649 (753)	904 (904)	560	500	20DF590A0ENNBANANE	11
650 (590) ⚡	715 (885)	1062 (1062)	700	650	20DE650A0ENNBANANE	650 (590)	715 (885)	1062 (1062)	630	560	20DF650A0ENNBANANE	12
750 (650) ⚡	825 (975)	1170 (1170)	800	700	20DE750A0ENNBANANE	750 (650)	825 (975)	1170 (1170)	710	630	20DF750A0ENNBANANE	12
820 (750) ⚡±	902 (975)	1170 (1170)	900	700	20DE820A0ENNBANANE	820 (750)	902 (975)	1170 (1170)	800	630	20DF820A0ENNBANANE	12
920 (820) ⚡	1012 (1230)	1380 (1410)	1000	900	20DE920A0ENNBANANE	920 (820)	1012 (1230)	1380 (1410)	900	800	20DF920A0ENNBANANE	13
1030 (920) ⚡	1133 (1380)	1545 (1755)	1100	1000	20DE1K0A0ENNBANANE	1030 (920)	1133 (1380)	1545 (1755)	1000	900	20DF1K0A0ENNBANANE	13
1180 (1030) ⚡	1298 (1463)	1755 (1755)	1300	1100	20DE1K1A0ENNBANANE	1180 (1030)	1298 (1463)	1755 (1755)	1100	1000	20DF1K1A0ENNBANANE	13
1500 (1300) ⚡	1650 (1950)	2250 (2340)	1600	1400	20DE1K5A0ENNBANANE	1500 (1300)	1650 (1950)	2250 (2340)	1500	1300	20DF1K5A0ENNBANANE	14

※ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

‡ 600V class drives at 820 amps (ND) such as 20DF820 & 20DE820 are only capable of producing 95% of starting torque under 10 Hz.

§ Also available with internal Brake IGBT (20DxxxxA0E Y NANANE).

♣ CE Certification testing has not been performed on 600V class drives Frames 1...4.

➤ 690V drives are Frame 5.

IP21, NEMA/UL Type 1, MCC

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ☼			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ☼			Normal Duty kW	Heavy Duty kW	Cat. No.	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
385 (300)	424 (450)	600 (600)	300	250	20DD385B0ENNBANANE	385 (300)	424 (450)	600 (600)	200	160	20DC385B0ENNBANANE	10
460 (385)	506 (578)	770 (770)	350	300	20DD460B0ENNBANANE	460 (385)	506 (578)	770 (770)	250	200	20DC460B0ENNBANANE	10
500 (420)	550 (630)	750 (840)	450	350	20DD500B0ENNBANANE	500 (420)	550 (630)	750 (840)	250	250	20DC500B0ENNBANANE	10
590 (520)	649 (780)	956 (956)	500	450	20DD590B0ENNBANANE	590 (520)	649 (780)	956 (956)	315	250	20DC590B0ENNBANANE	11
650 (590)	715 (885)	1062 (1062)	500	500	20DD650B0ENNBANANE	650 (590)	715 (885)	1062 (1062)	355	315	20DC650B0ENNBANANE	11
730 (650)	803 (975)	1095 (1170)	600	500	20DD730B0ENNBANANE	730 (650)	803 (975)	1095 (1170)	400	355	20DC730B0ENNBANANE	11
820 (730)	902 (1095)	1230 (1314)	700	600	20DD820B0ENNBANANE	820 (730)	902 (1095)	1230 (1314)	450	400	20DC820B0ENNBANANE	12
920 (820)	1012 (1230)	1380 (1476)	800	700	20DD920B0ENNBANANE	920 (820)	1012 (1230)	1380 (1476)	500	450	20DC920B0ENNBANANE	12
1030 (920)	1133 (1370)	1555 (1600)	900	800	20DD1K0B0ENNBANANE	1030 (920)	1133 (1370)	1555 (1600)	560	500	20DC1K0B0ENNBANANE	12

⌘ These drives have dual current ratings; one for normal duty applications, and one for heavy duty (in parenthesis). The drive may be operated at either rating.

500...690V AC, Three-Phase Drives

600V AC Input						Frame Size
Output Amps ⚡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	
Cont.	1 Min.	3 Sec.				
261 (208)	287 (312)	375 (375)	250	200	20DE261B0ENNBANANE	10
325 (261)	358 (392)	470 (470)	350	250	20DE325B0ENNBANANE	10
385 (325)	424 (488)	585 (585)	400	350	20DE385B0ENNBANANE	10
416 (325)	458 (488)	585 (585)	450	350	20DE416B0ENNBANANE	10
460 (385)	506 (578)	693 (693)	450	400	20DE460B0ENNBANANE	11
502 (460)	552 (690)	828 (828)	500	450	20DE502B0ENNBANANE	11
590 (502)	649 (753)	904 (904)	600	500	20DE590B0ENNBANANE	11
650 (590)	715 (885)	1062 (1062)	700	650	20DE650B0ENNBANANE	12
750 (650)	825 (975)	1170 (1170)	800	700	20DE750B0ENNBANANE	12
820 (750) ‡	902 (975)	1170 (1170)	900	700	20DE820B0ENNBANANE	12

⌘ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

‡ 600V class drives at 820 amps (ND) such as 20DF820 & 20DE820 are only capable of producing 95% of starting torque under 10 Hz.



PowerFlex 700L AC Drive

The PowerFlex 700L is available with the PowerFlex 700 or PowerFlex 700S control in a fully regenerative, liquid-cooled power structure. This powerful combination offers great performance and high power capabilities in a small package along with low harmonics.

Available as a panel mount unit or in a cabinet, this liquid cooled drive features regenerative braking which is ideal for precise, high-response speed and position control, continuous holdback, rapid deceleration and stopping of high inertia loads. Instead of wasting energy with resistor braking technology, regenerative braking actually puts the energy back into the system to be used by other equipment.

Ratings	380...480V: 200...860 kW / 300...1150 Hp / 360...1250 A
	500...600V: 345...650 kW / 465...870 Hp / 425...800 A
	690V: 355...657 kW / 475...881 Hp / 380...705 A
Motor Control	Select PowerFlex 700 or PowerFlex 700S Control
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP00, IP20
Safety	DriveGuard Safe Torque-Off / EN 954-1 Cat. 3 with PowerFlex 700S control
Additional Features	SynchLink and DriveLogix functionality with PowerFlex 700S control
Certifications	<ul style="list-style-type: none"> • UL • cUL • IEC (Designed to Meet) • CE • TÜV FS ISO/EN13849-1 (EN954-1) with PowerFlex 700S control
Options	See pages 64... 86
Additional Information	PowerFlex 700L Technical Data, publication 20L-TD001 PowerFlex 700L User Manual, publication 20L-UM001

400V AC, Three-Phase Drives

Output Amps			Nominal Power Ratings				IP20, NEMA/UL Type 1 *	Frame Size
400V AC Input			Normal Duty		Heavy Duty		Cat. No.	
Cont.	1 Min.	3 Sec.	kW	Hp	kW	Hp		
360	396	540	200	268	150	200	20LC360N0ENNAN10WA	2
650	715	975	370	500	270	365	20LC650A0ENNAN10WA	3A
1250	1375	1875	715	960	525	700	20LC1K2A0ENNAN10WA	3B

* Frames 3A and 3B Only. Frame 2 drives are IP00, NEMA/UL Type Open.

480V AC, Three-Phase Drives

Output Amps			Nominal Power Ratings				IP20, NEMA/UL Type 1 *	Frame Size
480V AC Input			Normal Duty		Heavy Duty		Cat. No.	
Cont.	1 Min.	3 Sec.	kW	Hp	kW	Hp		
360	396	540	224	300	175	235	20LD360N0ENNAN10WA	2
650	715	975	445	600	325	440	20LD650A0ENNAN10WA	3A
1250	1375	1875	860	1150	630	845	20LD1K2A0ENNAN10WA	3B

* Frames 3A and 3B Only. Frame 2 drives are IP00, NEMA/UL Type Open.

600V AC, Three-Phase Drives

Output Amps			Nominal Power Ratings				IP20, NEMA/UL Type 1	Frame Size
600V AC Input			Normal Duty		Heavy Duty			
Cont.	1 Min.	3 Sec.	kW	Hp	kW	Hp	Cat. No.	
425	470	640	345	465	255	345	20LE425A0ENNAN10WA	
800	885	1200	650	870	480	640	20LE800A0ENNAN10WA	

690V AC, Three-Phase Drives

Output Amps			Nominal Power Ratings				IP20, NEMA/UL Type 1	Frame Size
690V AC Input			Normal Duty		Heavy Duty			
Cont.	1 Min.	3 Sec.	kW	Hp	kW	Hp	Cat. No.	
380	420	570	355	475	260	350	20LF380A0ENNAN10WA	
705	780	1060	657	881	485	650	20LF705A0ENNAN10WA	

Cooling Loops

Drive Requirements		Supply Loop Requirements			Liquid to Liquid Heat Exchanger ☼
Frame Size	Heat Dissipation into Liquid	Minimum Flow @ Pressure *	Maximum Pressure	Temperature Range	Cat. No.
2	7,900 W	15.1 LPM @ 0.83 bar (4 GPM @ 12 PSI)	8.62 bar (125 PSI)	0...40 °C (32...104 °F)	20L-LL13K-P75A
3A	12,000 W	22.7 LPM @ 0.83 bar (6 GPM @ 12 PSI)	8.62 bar (125 PSI)	0...35 °C (32...95 °F)	20L-LL13K-P75A
3B	24,000 W	56.8 LPM @ 0.83 bar (15 GPM @ 12 PSI)	8.62 bar (125 PSI)	0...35 °C (32...95 °F)	20L-LL24K-1P0A

* The minimum pressure applies to the pressure drop across the drive and does not take into account additional pressure drop in the system such as piping or hosing.

☼ Recommended cooling loops shown are based on a single drive per cooling loop. Consult your local Rockwell Automation sales office or Allen-Bradley distributor for use of multiple drives on one cooling loop.

Hose Kits

Hose Length [m (ft.)]	Hoses per Kit	Drive Side Coupling Size	Heat Exchanger Side Coupling Size	Used with ...	Hose Kit Cat. No. ‡
3 (10)	2	0.75 in.	0.75 in.	Frame 2 and 13 kW HEX	20L-GH10-B1
9.1 (30)	2	0.75 in.	0.75 in.	Frame 2 and 13 kW HEX	20L-GH30-B1
3 (10)	2	1 in.	1 in. with 90° Elbow	Frame 3A and 13 kW HEX	20L-GH10-A2
9.1 (30)	2	1 in.	1 in. with 90° Elbow	Frame 3A and 13 kW HEX	20L-GH30-A2
3 (10)	2	1 in.	1 in.	Frame 3B and 24 kW HEX	20L-GH10-A1
9.1 (30)	2	1 in.	1 in.	Frame 3B and 24 kW HEX	20L-GH30-A1

‡ Each hose kit contains (2) hoses and the appropriate connectors.



PowerFlex 753 AC Drive

Designed for general purpose applications, the PowerFlex 753 AC drive offers multiple options and features along with the added benefit of simple integration. The PowerFlex 753 comes standard with built-in I/O making it a cost effective solution ideal for OEMs and system integrators looking to reduce engineering costs, deliver machines to market faster and meet end-user demand for more productive and safer machines.

Ratings	380...480V: 0.75...250 kW / 1...350 Hp / 2.1...456 A
Motor Control	<ul style="list-style-type: none"> • V/Hz Control • Adjustable Voltage Control • Vector Control with FORCE Technology • Sensorless Vector Control
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP00/IP20, Flange Mount, IP54/NEMA/UL Type 12
Safety	<ul style="list-style-type: none"> • Safe Torque-Off / EN 954-1 Cat. 3 • Safe Speed Monitor PLe/SIL3 Cat. 4
Additional Features	<ul style="list-style-type: none"> • DeviceLogix • Preventative Diagnostics • Standard I/O with 3 Digital In, 1 Analog In, 1 Analog Out, 1 Relay & 1 Transistor Out • Three option slots for I/O, feedback, safety, auxiliary control power, communications • Indexing • Pump Jack and Pump Off for oil well applications • Pjump and Traverse for Fibers application • Conformal Coating • Internal Brake IGBT standard on Frames 2...5 and optional on Frames 6...7 • DC Link Choke
Certifications	<ul style="list-style-type: none"> • UL • cUL • CE • C-Tick • SEMI F47 • GOST-R • TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option • Meets material restrictions specified in the RoHS directive
Options	See pages 64... 86
Additional Information	PowerFlex 750-Series Product Profile, publication 750-PP001 PowerFlex 750-Series User Manual, publication 750-UM001

IP00/IP20, NEMA/UL Type Open ❖

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ‡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ‡			Normal Duty kW	Heavy Duty kW	Cat. No. *	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20F11ND2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20F11NC2P1JA0NNNNN	2
3.4	5.1	6.1	2	2	20F11ND3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20F11NC3P5JA0NNNNN	2
5	7.5	9	3	3	20F11ND5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20F11NC5P0JA0NNNNN	2
8	12	14.4	5	5	20F11ND8P0AA0NNNNN	8.7	13	15.6	4	4	20F11NC8P7JA0NNNNN	2
11	16.5	19.8	7.5	7.5	20F11ND011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20F11NC011JA0NNNNN	2
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20F11ND014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20F11NC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20F11ND022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20F11NC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20F11ND027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20F11NC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20F11ND034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20F11NC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20F11ND040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20F11NC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20F11ND052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20F11NC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20F11ND065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20F11NC072JA0NNNNN	4
77 (65)	84.7 (97.5)	115.5 (117)	60	50	20F11ND077AA0NNNNN	85 (72)	93.5 (108)	127.5 (129.6)	45	37	20F11NC085JA0NNNNN	5
96 (77)	105.6 (115.5)	144 (144)	75	60	20F11ND096AA0NNNNN	104 (85)	114.4 (127.5)	156 (156)	55	45	20F11NC104JA0NNNNN	5
125 (96)	137.5 (144)	187.5 (187.5)	100	75	20F1AND125AN0NNNNN	140 (104)	154 (156)	210 (210)	75	55	20F1ANC140JN0NNNNN	6 ½
156 (125)	171.6 (187.5)	234 (234)	125	100	20F1AND156AN0NNNNN	170 (140)	187 (210)	255 (255)	90	75	20F1ANC170JN0NNNNN	6 ½
186 (156)	204.6 (234)	279 (280.8)	150	125	20F1AND186AN0NNNNN	205 (170)	225.5 (255)	307.5 (307.5)	110	90	20F1ANC205JN0NNNNN	6 ½
248 (186)	272.8 (279)	372 (372)	200	150	20F1AND248AN0NNNNN	260 (205)	286 (307.5)	390 (390)	132	110	20F1ANC260JN0NNNNN	6 ½
302 (248)	332.2 (372)	453 (453)	250	200	20F1AND302AN0NNNNN	302 (260)	332.2 (390)	453 (468)	160	132	20F1ANC302JN0NNNNN	7 ½
361 (302)	397.1 (453)	541.5 (543.6)	300	250	20F1AND361AN0NNNNN	367 (302)	403.7 (453)	550.5 (550.5)	200	160	20F1ANC367JN0NNNNN	7 ½
415 (361)	456.5 (541.5)	622.5 (649.8)	350	300	20F1AND415AN0NNNNN	456 (367)	501.6 (550.5)	684 (684)	250	200	20F1ANC456JN0NNNNN	7 ½

❖ Frames 2...5 are IP20, Frames 6...7 are IP00.

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

⌘ Also available with internal Brake IGBT (20F1xxxxxx **A** xxxxxx).

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

IP54, NEMA/UL Type 12**380...480V AC, Three-Phase Drives**

480V AC Input						400V AC Input						Frame Size
Output Amps ‡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ‡			Normal Duty kW	Heavy Duty kW	Cat. No. *	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20F11GD2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20F11GC2P1JA0NNNNN	2
3.4	5.1	6.1	2	2	20F11GD3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20F11GC3P5JA0NNNNN	2
5	7.5	9	3	3	20F11GD5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20F11GC5P0JA0NNNNN	2
8	12	14.4	5	5	20F11GD8P0AA0NNNNN	8.7	13	15.6	4	4	20F11GC8P7JA0NNNNN	2
11	16.5	19.8	7.5	7.5	20F11GD011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20F11GC011JA0NNNNN	2
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20F11GD014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20F11GC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20F11GD022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20F11GC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20F11GD027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20F11GC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20F11GD034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20F11GC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20F11GD040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20F11GC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20F11GD052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20F11GC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20F11GD065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20F11GC072JA0NNNNN	5
77 (65)	84.7 (97.5)	115.5 (117)	60	50	20F11GD077AA0NNNNN	85 (72)	93.5 (108)	127.5 (129.6)	45	37	20F11GC085JA0NNNNN	5
96 (77)	105.6 (115.5)	144 (144)	75	60	20F1AGD096AN0NNNNN	104 (85)	114.4 (127.5)	156 (156)	55	45	20F1AGC104JN0NNNNN	6 ½
125 (96)	137.5 (144)	187.5 (187.5)	100	75	20F1AGD125AN0NNNNN	140 (104)	154 (156)	210 (210)	75	55	20F1AGC140JN0NNNNN	6 ½
156 (125)	171.6 (187.5)	234 (234)	125	100	20F1AGD156AN0NNNNN	170 (140)	187 (210)	255 (255)	90	75	20F1AGC170JN0NNNNN	6 ½
186 (156)	204.6 (234)	279 (280.8)	150	125	20F1AGD186AN0NNNNN	205 (170)	225.5 (255)	307.5 (307.5)	110	90	20F1AGC205JN0NNNNN	6 ½
248 (186)	272.8 (279)	372 (372)	200	150	20F1AGD248AN0NNNNN	260 (205)	286 (307.5)	390 (390)	132	110	20F1AGC260JN0NNNNN	7 ½
302 (248)	332.2 (372)	453 (453)	250	200	20F1AGD302AN0NNNNN	302 (260)	332.2 (390)	453 (468)	160	132	20F1AGC302JN0NNNNN	7 ½
361 (302)	397.1 (453)	541.5 (543.6)	300	250	20F1AGD361AN0NNNNN	367 (302)	403.7 (453)	550.5 (550.5)	200	160	20F1AGC367JN0NNNNN	7 ½
415 (361)	456.5 (541.5)	622.5 (649.8)	350	300	20F1AGD415AN0NNNNN	456 (367)	501.6 (550.5)	684 (684)	250	200	20F1AGC456JN0NNNNN	7 ½

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

½ Also available with internal Brake IGBT (20F1xxxxxx A xxxxx).

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

Flange Mount

Front = IP20, NEMA/UL Type Open, Back/Heatsink = IP66, NEMA/UL Type 4X

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ‡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ‡			Normal Duty kW	Heavy Duty kW	Cat. No. *	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20F11FD2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20F11FC2P1JA0NNNNN	2
3.4	5.1	6.1	2	2	20F11FD3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20F11FC3P5JA0NNNNN	2
5	7.5	9	3	3	20F11FD5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20F11FC5P0JA0NNNNN	2
8	12	14.4	5	5	20F11FD8P0AA0NNNNN	8.7	13	15.6	4	4	20F11FC8P7JA0NNNNN	2
11	16.5	19.8	7.5	7.5	20F11FD011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20F11FC011JA0NNNNN	2
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20F11FD014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20F11FC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20F11FD022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20F11FC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20F11FD027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20F11FC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20F11FD034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20F11FC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20F11FD040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20F11FC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20F11FD052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20F11FC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20F11FD065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20F11FC072JA0NNNNN	4
77 (65)	84.7 (97.5)	115.5 (117)	60	50	20F11FD077AA0NNNNN	85 (72)	93.5 (108)	127.5 (129.6)	45	37	20F11FC085JA0NNNNN	5
96 (77)	105.6 (115.5)	144 (144)	75	60	20F11FD096AA0NNNNN	104 (85)	114.4 (127.5)	156 (156)	55	45	20F11FC104JA0NNNNN	5

Note: Frames 6...7 require a user installed flange kit with an IP00, NEMA/UL Type Open drive.

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

DC Input Drives

DC Bus Bars for Frame 6 & 7 are not included in the standard catalog numbers provided, however user installed kits are available (see page 68).



PowerFlex 755 AC Drive

Designed for ease of integration, application flexibility and performance the PowerFlex 755 AC drive provides improved functionality across many manufacturing systems. The PowerFlex 755 AC drive is designed to maximize user's investment and help improve productivity. Ideal for applications that require safety, high motor control performance, and application flexibility, the PowerFlex 755 is highly functional and cost effective solution.

With the added capability of integrated motion, PowerFlex and Kinetix® drives can be on the same network – EtherNet/IP – and configured, programmed and controlled using the same motion instruction sets.

Ratings	380...480V: 0.75...450 kW / 1...700 Hp / 2.1...832 A
Motor Control	<ul style="list-style-type: none"> • V/Hz Control • Vector Control with FORCE Technology • Sensorless Vector Control • Permanent Magnet Motor Control • Kinematics and multi-axis support
Communications	Embedded EtherNet/IP port standard, Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP00/IP20, Flange Mount, IP54/NEMA/UL Type 12, IP20 MCC Style Cabinet
Safety	<ul style="list-style-type: none"> • Safe Torque-Off PLe/SIL3 Cat. 3 • Safe Speed Monitor PLe/SIL3 Cat. 4
Additional Features	<ul style="list-style-type: none"> • DeviceLogix • Configure and control with motion instruction sets in RSLogix 5000 (v19) • Preventative Diagnostics • Five option slots for I/O, feedback, safety, auxiliary control power, communications • Accurate positioning with PCAM, Indexer, Electronic Gearing, and speed/position profiling • Incremental and Absolute feedback supported • TorqProve for lifting applications • Pump Jack and Pump Off for oil well applications • Pjump and Traverse for Fibers application • Conformal Coating • Internal Brake IGBT standard on Frames 2...5 and optional on Frames 6...7 • DC Link Choke • AC line fuses included with Frame 8 drives • Roll-out design for Frame 8 drives
Certifications	<ul style="list-style-type: none"> • UL • cUL • CE • C-Tick • SEMI F47 • GOST-R • TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option • Meets material restrictions specified in the RoHS directive
Options	See pages 64... 86
Additional Information	PowerFlex 750-Series Product Profile, publication 750-PP001 PowerFlex 750-Series Technical Data, publication 750-TD001 PowerFlex 755 with Integrated Motion, publication 755-PP001

IP00/IP20, NEMA/UL Type Open ❖

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ‡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ‡			Normal Duty kW	Heavy Duty kW	Cat. No. *	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20G11ND2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20G11NC2P1JA0NNNNN	2 ½
3.4	5.1	6.1	2	2	20G11ND3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20G11NC3P5JA0NNNNN	2 ½
5	7.5	9	3	3	20G11ND5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20G11NC5P0JA0NNNNN	2 ½
8	12	14.4	5	5	20G11ND8P0AA0NNNNN	8.7	13	15.6	4	4	20G11NC8P7JA0NNNNN	2 ½
11	16.5	19.8	7.5	7.5	20G11ND011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20G11NC011JA0NNNNN	2 ½
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20G11ND014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20G11NC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20G11ND022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20G11NC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20G11ND027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20G11NC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20G11ND034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20G11NC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20G11ND040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20G11NC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20G11ND052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20G11NC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20G11ND065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20G11NC072JA0NNNNN	4
77 (65)	84.7 (97.5)	115.5 (117)	60	50	20G11ND077AA0NNNNN	85 (72)	93.5 (108)	127.5 (129.6)	45	37	20G11NC085JA0NNNNN	5
96 (77)	105.6 (115.5)	144 (144)	75	60	20G11ND096AA0NNNNN	104 (85)	114.4 (127.5)	156 (156)	55	45	20G11NC104JA0NNNNN	5
125 (96)	137.5 (144)	187.5 (187.5)	100	75	20G1AND125AN0NNNNN	140 (104)	154 (156)	210 (210)	75	55	20G1ANC140JN0NNNNN	6 ½
156 (125)	171.6 (187.5)	234 (234)	125	100	20G1AND156AN0NNNNN	170 (140)	187 (210)	255 (255)	90	75	20G1ANC170JN0NNNNN	6 ½
186 (156)	204.6 (234)	279 (280.8)	150	125	20G1AND186AN0NNNNN	205 (170)	225.5 (255)	307.5 (307.5)	110	90	20G1ANC205JN0NNNNN	6 ½
248 (186)	272.8 (279)	372 (372)	200	150	20G1AND248AN0NNNNN	260 (205)	286 (307.5)	390 (390)	132	110	20G1ANC260JN0NNNNN	6 ½
302 (248)	332.2 (372)	453 (453)	250	200	20G1AND302AN0NNNNN	302 (260)	332.2 (390)	453 (468)	160	132	20G1ANC302JN0NNNNN	7 ½
361 (302)	397.1 (453)	541.5 (543.6)	300	250	20G1AND361AN0NNNNN	367 (302)	403.7 (453)	550.5 (550.5)	200	160	20G1ANC367JN0NNNNN	7 ½
415 (361)	456.5 (541.5)	622.5 (649.8)	350	300	20G1AND415AN0NNNNN	456 (367)	501.6 (550.5)	684 (684)	250	200	20G1ANC456JN0NNNNN	7 ½

❖ Frames 2...5 are IP20, Frames 6...7 are IP00.

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

¶ Also available with internal Brake IGBT (20G1xxxxxx A xxxxxx).

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

IP54, NEMA/UL Type 12**380...480V AC, Three-Phase Drives**

480V AC Input						400V AC Input						Frame Size
Output Amps ‡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ‡			Normal Duty kW	Heavy Duty kW	Cat. No. *	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20G11GD2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20G11GC2P1JA0NNNNN	2 ½
3.4	5.1	6.1	2	2	20G11GD3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20G11GC3P5JA0NNNNN	2 ½
5	7.5	9	3	3	20G11GD5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20G11GC5P0JA0NNNNN	2 ½
8	12	14.4	5	5	20G11GD8P0AA0NNNNN	8.7	13	15.6	4	4	20G11GC8P7JA0NNNNN	2 ½
11	16.5	19.8	7.5	7.5	20G11GD011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20G11GC011JA0NNNNN	2 ½
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20G11GD014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20G11GC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20G11GD022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20G11GC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20G11GD027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20G11GC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20G11GD034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20G11GC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20G11GD040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20G11GC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20G11GD052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20G11GC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20G11GD065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20G11GC072JA0NNNNN	5
77 (65)	84.7 (97.5)	115.5 (117)	60	50	20G11GD077AA0NNNNN	85 (72)	93.5 (108)	127.5 (129.6)	45	37	20G11GC085JA0NNNNN	5
96 (77)	105.6 (115.5)	144 (144)	75	60	20G1AGD096AN0NNNNN	104 (85)	114.4 (127.5)	156 (156)	55	45	20G1AGC104JN0NNNNN	6 ¾
125 (96)	137.5 (144)	187.5 (187.5)	100	75	20G1AGD125AN0NNNNN	140 (104)	154 (156)	210 (210)	75	55	20G1AGC140JN0NNNNN	6 ¾
156 (125)	171.6 (187.5)	234 (234)	125	100	20G1AGD156AN0NNNNN	170 (140)	187 (210)	255 (255)	90	75	20G1AGC170JN0NNNNN	6 ¾
186 (156)	204.6 (234)	279 (280.8)	150	125	20G1AGD186AN0NNNNN	205 (170)	225.5 (255)	307.5 (307.5)	110	90	20G1AGC205JN0NNNNN	6 ¾
248 (186)	272.8 (279)	372 (372)	200	150	20G1AGD248AN0NNNNN	260 (205)	286 (307.5)	390 (390)	132	110	20G1AGC260JN0NNNNN	7 ¾
302 (248)	332.2 (372)	453 (453)	250	200	20G1AGD302AN0NNNNN	302 (260)	332.2 (390)	453 (468)	160	132	20G1AGC302JN0NNNNN	7 ¾
361 (302)	397.1 (453)	541.5 (543.6)	300	250	20G1AGD361AN0NNNNN	367 (302)	403.7 (453)	550.5 (550.5)	200	160	20G1AGC367JN0NNNNN	7 ¾
415 (361)	456.5 (541.5)	622.5 (649.8)	350	300	20G1AGD415AN0NNNNN	456 (367)	501.6 (550.5)	684 (684)	250	200	20G1AGC456JN0NNNNN	7 ¾

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

¶ Also available with internal Brake IGBT (20G1xxxxxx A xxxxxx).

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

Flange Mount

Front = IP20, NEMA/UL Type Open, Back/Heatsink = IP66, NEMA/UL Type 4X

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						Frame Size
Output Amps ‡			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps ‡			Normal Duty kW	Heavy Duty kW	Cat. No. *	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20G11FD2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20G11FC2P1JA0NNNNN	2 ½
3.4	5.1	6.1	2	2	20G11FD3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20G11FC3P5JA0NNNNN	2 ½
5	7.5	9	3	3	20G11FD5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20G11FC5P0JA0NNNNN	2 ½
8	12	14.4	5	5	20G11FD8P0AA0NNNNN	8.7	13	15.6	4	4	20G11FC8P0JA0NNNNN	2 ½
11	16.5	19.8	7.5	7.5	20G11FD011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20G11FC011JA0NNNNN	2 ½
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20G11FD014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20G11FC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20G11FD022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20G11FC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20G11FD027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20G11FC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20G11FD034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20G11FC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20G11FD040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20G11FC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20G11FD052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20G11FC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20G11FD065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20G11FC072JA0NNNNN	4
77 (65)	84.7 (97.5)	115.5 (117)	60	50	20G11FD077AA0NNNNN	85 (72)	93.5 (108)	127.5 (129.6)	45	37	20G11FC085JA0NNNNN	5
96 (77)	105.6 (115.5)	144 (144)	75	60	20G11FD096AA0NNNNN	104 (85)	114.4 (127.5)	156 (156)	55	45	20G11FC104JA0NNNNN	5

Note: Frames 6...7 require an optional user installed flange kit with an IP00, NEMA/UL Type Open drive.

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

DC Input Drives

DC Bus Bars for Frame 6 & 7 are not included in the standard catalog numbers provided, however user installed kits are available (see page 68).

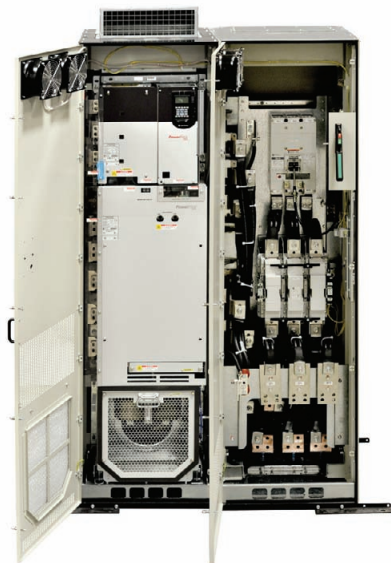
315 kW / 400 Hp to 450 kW / 700 Hp



IP20, NEMA/UL Type 1 Drive (2500 MCC Style Cabinet)

Important: A Roll-out Cart (sold separately) is required for installation.

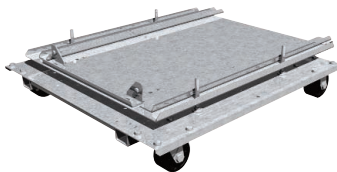
- includes:
- DC link choke
 - AC line fuses
 - Roll-out design



IP20, NEMA/UL Type 1 Drive and Cabinet Options (2500 MCC Style Cabinet)

Important: A Roll-out Cart (sold separately) is required for installation.

- includes:
- DC link choke
 - AC line fuses
 - Roll-out design
 - Option bay for control/protection devices



Roll-out Cart

- Required for Frame 8 drives
- Adjustable Curb Height: 0...182 mm (0...7.2 in.)
- Adjustment for Curb Offset/Reach: 0...114 mm (0...4.5 in.)

Power Wiring Options

Cable Option	Wire Entry/Exit Location	IP20, NEMA/UL Type 1 Drive (2500 MCC Style Cabinet)		IP20, NEMA/UL Type 1 Drive and Cabinet Options (2500 MCC Style Cabinet)	
		600 mm (23.6 in.) Deep Drive Bay	800 mm (31.5 in.) Deep Drive Bay	600 or 800 mm Deep Drive Bay w/600 mm Wide Wiring Only Bay	600 or 800 mm Deep Drive Bay w/600 mm Cabinet Options Bay
Armored Cable with Conduit Hubs	Top Entry, Bottom Exit		✓	✓	✓
	Bottom Entry, Bottom Exit		✓	✓	
	Top Entry, Top Exit		✓	✓	
Shielded Cable with Conduit Hubs	Top Entry, Bottom Exit	✓	✓	✓	✓
	Bottom Entry, Bottom Exit		✓	✓	
	Top Entry, Top Exit		✓	✓	✓ ♣
Shielded Cable without Conduit Hubs ➤	Bottom Entry, Bottom Exit	✓	✓	✓	

♣ This wiring configuration is possible when there are no output options in the option bay and the motor connections are wired from the drive bay.

➤ Other configurations with shielded cable are possible, however the use of conduit hubs is recommended.

IP20, NEMA/UL Type 1 (2500 MCC Style Cabinet)

380...400V AC, Three-Phase Drives ⚡

Light Duty			Normal Duty					Heavy Duty				Cat. No. *	Frame Size
Output Amps			kW	Output Amps			kW	Output Amps			kW		
Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.			
540	594	NA	315	460	506	693	250	385	578	693	200	20G1AⓈC460JN0NNNNN	8
585	644		315	540	594	821	315	456	684	821	250	20G1AⓈC540JN0NNNNN	8
612	673		355	567	624	851	315	472	708	851	250	20G1AⓈC567JN0NNNNN	8
750	825		400	650	715	975	355	540	810	975	315	20G1AⓈC650JN0NNNNN	8
796	876		450	750	825	1125	400	585	878	1125	315	20G1AⓈC750JN0NNNNN	8
832	915		450	770	847	1155	400	642	963	1155	355	20G1AⓈC770JN0NNNNN	8

Ⓢ The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

⚡ A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

480V AC, Three-Phase Drives ⚡

Light Duty			Normal Duty					Heavy Duty				Cat. No.	Frame Size
Output Amps			Hp	Output Amps			Hp	Output Amps			Hp		
Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.			
485	534	NA	400	430	473	666	350	370	555	666	300	20G1AⓈD430AN0NNNNNN	8
545	600		450	485	534	745	400	414	621	745	350	20G1AⓈD485AN0NNNNNN	8
590	649		500	545	600	818	450	454	681	818	350	20G1AⓈD545AN0NNNNNN	8
710	781		600	617	679	926	500	485	728	926	400	20G1AⓈD617AN0NNNNNN	8
765	842		650	710	781	1065	600	545	818	1065	450	20G1AⓈD710AN0NNNNNN	8
800	880		700	740	814	1110	650	617	926	1110	500	20G1AⓈD740AN0NNNNNN	8

Ⓢ The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

⚡ A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

IP20, NEMA/UL Type 1 and Cabinet Options (2500 MCC Style Cabinet)

To configure a catalog number for a drive with cabinet options:

1. Select the base drive catalog number from the tables below.
2. Select the System Overload Duty Cycle and Power Disconnect options from the Required Options table on page 63. Add the desired option codes to the end of the base catalog number, separating each option code with a dash. For example: 21G1A***C460JN0NNNNN-LD-P3**.
3. Select other options from the Additional Options table. Add the option code(s) to the end of the catalog number separating each code with a dash. For example: 21G1A***C460JN0NNNNN-LD-P3-P11**.

380...400V AC, Three-Phase Drives §†

Light Duty (-LD)			Normal Duty (-ND)					Heavy Duty (-HD)				Base Drive Cat. No. *	Frame Size
Output Amps			kW	Output Amps			kW	Output Amps			kW		
Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.			
540	594	NA	315	460	506	693	250	385	578	693	200	21G1A* C460JN0NNNNN	8
585	644		315	540	594	821	315	456	684	821	250	21G1A* C540JN0NNNNN	8
612	673		355	567	624	851	315	472	708	851	250	21G1A* C567JN0NNNNN	8
750	825		400	650	715	975	355	540	810	975	315	21G1A* C650JN0NNNNN	8
796	876		450	750	825	1125	400	585	878	1125	315	21G1A* C750JN0NNNNN	8
832	915		450	770	847	1155	400	642	963	1155	355	21G1A* C770JN0NNNNN	8

* The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. "P" = Packaged Drive - IP20, NEMA/UL Type 1, MCC style w/MCC bus, 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

† A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

480V AC, Three-Phase Drives §†

Light Duty (-LD)			Normal Duty (-ND)					Heavy Duty (-HD)				Base Drive Cat. No.	Frame Size
Output Amps			Hp	Output Amps			Hp	Output Amps			Hp		
Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.		Cont.	1 Min.	3 Sec.			
485	534	NA	400	430	473	666	350	370	555	666	300	21G1A®D430AN0NNNNN	8
545	600		450	485	534	745	400	414	621	745	350	21G1A®D485AN0NNNNN	8
590	649		500	545	600	818	450	454	681	818	350	21G1A®D545AN0NNNNN	8
710	781		600	617	679	926	500	485	728	926	400	21G1A®D617AN0NNNNN	8
765	842		650	710	781	1065	600	545	818	1065	450	21G1A®D710AN0NNNNN	8
800	880		700	740	814	1110	650	617	926	1110	500	21G1A®D740AN0NNNNN	8

* The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. "P" = Packaged Drive - IP20, NEMA/UL Type 1, MCC style w/MCC bus, 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

† A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

Required Options

Type	Option		Description
System Overload Duty Cycle ♣ ➤	LD	Light Duty	100% continuous current, 110% current for 1 minute.
	ND	Normal Duty	100% continuous current, 110% current for 1 minute, 150% for 3 seconds.
	HD	Heavy Duty	100% continuous current, 150% current for 1 minute, 200% for 3 seconds.
Power Disconnect or Wiring Only Bay ♣	P3	Input Thermal Magnetic Circuit Breaker	This option is for disconnecting drive power. An Allen-Bradley 140U Molded Case Circuit Breaker is provided. The circuit breaker is rated at 100 kA interrupt rating for 400 and 480V AC systems. All switches include flange style handle operators that are door interlocking and padlockable.
	P5	Input Non-Fused Molded Case Disconnect Switch	This option is for disconnecting drive power. An Allen-Bradley 140U Molded Case Switch is provided. The disconnect is rated at 65 kA interrupt rating. All switches include flange style handle operators that are door interlocking and padlockable.
	P14	Wiring Only Bay	This option identifies that an extra bay will be provided for the purpose of wiring the drive. This option will extend the drive power bus from the drive bay into the option bay, making field connection options more flexible. No drive input protection is supplied with this option. Documentation to reflect input disconnection and protection is customer supplied.

♣ Only one option of this type may be selected.

➤ See previous selection tables for specific rating information.

Additional Options

Type	Option		Description
Contactors ♣ ⚡	P11	Input Contactor	A contactor is provided between the AC line and the drive. The contactor is controlled by customer supplied 120V AC remote contact closure logic. A terminal block for control is provided for customer use, and is wired to 1 N.O. and 1 N.C. auxiliary contact on the contactor. Important: The P11 option "Alternate Contact Circuit" is not intended to be used as a Start/Stop circuit.
	P12	Output Contactor	A contactor is provided between the drive output and the motor. The contactor is controlled by customer supplied 120V AC remote contact closure logic. A terminal block for control is provided for customer use and is wired to 1 N.O. and 1 N.C. auxiliary contact on the contactor.
Reactors ♣	L1	3% Input Reactor	Provides an open core drive input line reactor that mounts inside the drive enclosure. Typical impedance is 3%.
	L2	3% Output Reactor	Provides an open core drive output load reactor, which mounts inside the drive enclosure. Typical impedance is 3%.
	L3	5% Input Reactor	Provides an open core drive input line reactor that mounts inside the drive enclosure. Typical impedance is 5%.
	L4	5% Output Reactor	Provides an open core drive output load reactor, which mounts inside the drive enclosure. Typical impedance is 5%.
MCC Power Bus Capacity ♣	P20	1250 Amp Bus	Provides a 1250 Amp Bus.
	P22	2000 Amp Bus	Provides a 2000 Amp Bus.
	P24	3200 Amp Bus	Provides a 3200 Amp Bus.

♣ Only one option of this type may be selected.

⚡ Contactor options are not available for systems with MCC power bus.

PowerFlex 7-Class Options



Blank Plate



20-HIM-A3



20-HIM-A5



20-HIM-A6



20-HIM-C3S



20-HIM-C5S



20-HIM-C6S



20-WIM-N1



20-WIM-N4S

Human Interface and Wireless Interface Modules

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
No HIM (Blank Plate), Handheld/Local (Drive Mount)	20-HIM-A0	✓	✓	✓	✓	✓	✓
LCD Display, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A3	✓	✓	✓	✓	✓	
LCD Display, Programmer Only, Handheld/Local (Drive Mount)	20-HIM-A5	✓	✓	✓	✓	✓	
Enhanced, LCD, Full Numeric, Handheld/Local (Drive Mount)	20-HIM-A6	✓	✓	✓	✓	✓	✓
Remote (Panel Mount) LCD Display, Full Numeric Keypad *⊗	20-HIM-C3S	✓	✓	✓	✓	✓	
Remote (Panel Mount) LCD Display, Programmer Only *⊗	20-HIM-C5S	✓	✓	✓	✓	✓	
Enhanced, LCD, Full Numeric *⊗	20-HIM-C6S	✓	✓	✓	✓	✓	✓
Wireless Interface Module, Handheld/Local (Drive Mount)	20-WIM-N1	✓	✓	✓	✓	✓	✓
Wireless Interface Module, Remote (Panel Mount) *⊗	20-WIM-N4S	✓	✓	✓	✓	✓	✓

* IP66, NEMA Type 4X/12 - For indoor use only.

⊗ Includes a 1202-C30 interface cable (3 meters) for connection to drive.

Human Interface Module Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Bezel Kit for LCD HIMs, NEMA Type 1 ⊗	20-HIM-B1	✓	✓	✓	✓	✓	✓
PowerFlex HIM Interface Cable, 1 m (39 in) §	20-HIM-H10	✓	✓	✓	✓	✓	✓
Comm Option Cable Kit (Male-Male)							
0.33 Meters (1.1 Feet)	1202-C03	✓	✓	✓	✓	✓	✓
1 Meter (3.3 Feet)	1202-C10	✓	✓	✓	✓	✓	✓
3 Meter (9.8 Feet)	1202-C30	✓	✓	✓	✓	✓	✓
9 Meter (29.5 Feet)	1202-C90	✓	✓	✓	✓	✓	✓
Cable Kit (Male-Female) ♣							
0.33 Meters (1.1 Feet)	1202-H03	✓	✓	✓	✓	✓	✓
1 Meter (3.3 Feet)	1202-H10	✓	✓	✓	✓	✓	✓
3 Meter (9.8 Feet)	1202-H30	✓	✓	✓	✓	✓	✓
9 Meter (29.5 Feet)	1202-H90	✓	✓	✓	✓	✓	✓
DPI™ Cable Kit with Connectors, Tools and 100 m (328 ft) Cable	1202-CBL-KIT-100M	✓	✓	✓	✓	✓	✓
DPI Cable Connector Kit	1202-TB-KIT-SET	✓	✓	✓	✓	✓	✓
DPI/SCANport™ One to Two Port Splitter Cable	1203-S03	✓	✓	✓	✓	✓	✓

⊗ Includes a 1202-C30 interface cable (3 meters) for connection to drive.

§ Required only when HIM is used as handheld or remote.

♣ Required in addition to 20-HIM-H10 for distances up to a total maximum of 10 Meters (32.8 Feet).

Communication Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
BACnet [®] MS/TP RS485 Communication Adapter	20-COMM-B	✓	✓	✓			
Coaxial ControlNet Option Module	20-750-CNETC						✓
ControlNet [™] Communication Adapter (Coax)	20-COMM-C	✓	✓	✓	✓	✓	✓ ‡
ControlNet [™] Communication Adapter (Coax) Conformal Coat	20-COMM-C-MX3	✓	✓	✓	✓	✓	✓ ‡
DeviceNet Option Module	20-750-DNET						✓
DeviceNet [™] Communication Adapter	20-COMM-D	✓	✓	✓	✓	✓	✓ ‡
DeviceNet [™] Communication Adapter Conformal Coat	20-COMM-D-MX3	✓	✓	✓	✓	✓	✓ ‡
EtherNet/IP [™] Communication Adapter	20-COMM-E	✓	✓	✓	✓	✓	✓ ‡
EtherNet/IP [™] Communication Adapter Conformal Coat	20-COMM-E-MX3	✓	✓	✓	✓	✓	✓ ‡
HVAC Communication Adapter	20-COMM-H	✓	✓	✓	✓ ¾	✓	✓ ¾ ‡
Interbus [™] Communication Adapter	20-COMM-I	✓	✓	✓	✓	✓	✓ ‡
CANopen [®] Communication Adapter	20-COMM-K	✓	✓	✓	✓	✓	✓ ‡
LonWorks [®] Communication Adapter	20-COMM-L	✓		✓			
Modbus/TCP Communication Adapter	20-COMM-M	✓	✓	✓	✓	✓	✓ ‡
PROFIBUS [™] DP Communication Adapter	20-COMM-P	✓		✓	✓	✓	✓ ‡
ControlNet [™] Communication Adapter (Fiber)	20-COMM-Q	✓	✓	✓	✓	✓	✓ ‡
Remote I/O Communication Adapter	20-COMM-R	✓	✓	✓	✓	✓	✓ ‡
Remote I/O Communication Adapter Conformal Coat	20-COMM-R-MX3	✓	✓	✓	✓	✓	✓ ‡
RS485 DF1 Communication Adapter	20-COMM-S	✓	✓	✓	✓	✓	✓ ‡
RS485 DF1 Communication Adapter Conformal Coat	20-COMM-S-MX3	✓	✓	✓	✓	✓	✓ ‡
External Communications Kit Power Supply	20-XCOMM-AC-PS1	✓	✓	✓	✓	✓	✓
DPI External Communications Kit	20-XCOMM-DC-BASE	✓	✓	✓	✓	✓	✓
External DPI I/O Option Board ➤	20-XCOMM-IO-OPT1	✓	✓	✓	✓	✓	✓
Compact I/O Module (3 Channel)	1769-SM1	✓	✓	✓	✓	✓	✓
DriveLogix ControlNet Communication Adapter (Coax) ¾	1788-CNC				✓	✓ ‡	
DriveLogix Comm Option, ControlNet Redundant (Coax) ¾	1788-CNCR				✓	✓ ‡	
DriveLogix Comm Option, ControlNet (Fiber) ¾	1788-CNF				✓	✓ ‡	
DriveLogix Comm Option, ControlNet Redundant (Fiber) ¾	1788-CNFR				✓	✓ ‡	
DriveLogix Comm Option, DeviceNet (Open Conn.) ¾	1788-DNBO				✓	✓ ‡	
DriveLogix Comm Option, EtherNet/IP (Twisted Pair) ¾	1788-ENBT				✓	✓ ‡	
DriveLogix5730 Comm Option, Embedded EtherNet/IP	20D-DL2-ENET0				✓	✓ ‡	

➤ For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

¾ Only Modbus RTU can be used.

¾ For use with DriveLogix option only. Requires Logix Expansion Board (20D-DL2-LEB0).

‡ Requires a Communication Carrier Card (20-750-20COMM). Refer to page 66 for compatibility details.

➤ When using a PowerFlex 700S control.

Communication Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Serial Null Modem Adapter	1203-SNM	✓	✓	✓	✓	✓	✓
Smart Self-powered Serial Converter (RS232) includes 1203-SFC and 1202-C10 Cables	1203-SSS	✓	✓	✓	✓	✓	✓
Universal Serial Bus [™] (USB) Converter includes 2 m USB, 20-HIM-H10 & 22-HIM-H10 Cables	1203-USB	✓	✓	✓	✓	✓	✓
ControlNet Ex Right-Angle T-Tap	1786-TPR				✓	✓	✓
Communication Carrier Card	20-750-20COMM						✓

PowerFlex 750-Series Legacy Communication Options

Most legacy communication adapters (20-COMM) can be used with the PowerFlex 755. However, the restrictions stated below do apply.

Adapter	Accesses Ports 1...6 for I/O	Accesses Port 7...14 Devices	Supports Drive Add On Profiles	Supports Asian-Languages ➤
20-COMM-B	Not Compatible			
20-COMM-C	✓⌘	✓ v3.001 §	✓ ♣	✓ v3.001 §
20-COMM-D		Not Compatible		
20-COMM-E		✓ v4.001 §	✓ ♣	✓ v4.001 §
20-COMM-H	✓‡	Not Compatible		
20-COMM-I	✓⌘			
20-COMM-K				
20-COMM-L	Not Compatible			
20-COMM-M	✓⌘	✓ v2.001 §	Not Compatible	✓ v2.001 §
20-COMM-P		Not Compatible		
20-COMM-Q		✓ v3.001 §	✓ ♣	✓ v3.001 §
20-COMM-R		Not Compatible		
20-COMM-S				

⌘ Controller must be capable of reading/writing 32-bit floating point (REAL) values.

‡ Only works in the Modbus RTU mode.

§ Requires this adapter firmware version or higher.

♣ Requires firmware version v1.05 or higher of the drive Add On Profiles for RSLogix 5000 version v16 or higher.

➤ Chinese, Japanese, and Korean languages are supported at the time of publication.

Feedback Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
5V/12V Encoder ❖	20A-ENC-1	✓					
12V/5V Encoder	20B-ENC-1		✓ ♣			✓ ♣	
12V/5V Encoder with Conformal Coat	20B-ENC-1-MX3		✓ ♣				
Multi-Device Interface ➤	20D-MDI-C2				✓	✓ †	
2nd Encoder, 5V/12V ➤	20D-P2-ENC0				✓	✓ †	
Resolver ➤	20D-RES-A1				✓	✓ †	
Stegmann High Resolution Hyperface Encoder ➤	20D-STEG-B1				✓	✓ †	
Heidenhain High Resolution EnDat Encoder	20D-HEID-D0				✓	✓ †	
Incremental Encoder	20-750-ENC-1						✓ ⌘
Dual Incremental Encoder	20-750-DENC-1						✓ ⌘
Universal Feedback (includes Stegmann, Heidenhain, SSI, Biss, Incremental)	20-750-UFB-1						✓ *

❖ Works only with PowerFlex 70 Enhanced Control.

➤ Requires Expanded Cassette

♣ When using a PowerFlex 700 with Vector Control.

* PowerFlex 755 only.

† When using a PowerFlex 700S control.

⌘ Homing and registration functions are not supported when using this device with Integrated Motion. To use these functions, the Universal Feedback Board (20-750-UFB-1) must be used.

I/O Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
24V DC Digital Inputs (6) w/Analog I/O (4), Slot A ⚠	20C-DA1-A			✓			
115V AC Digital Inputs (6) w/Analog I/O (4), Slot A ⚠	20C-DA1-B			✓			
115V AC Digital Outputs (3), Slot B ⚠	20C-DO1			✓			
24V DC I/O with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262C-2R						✓
115V AC I/O with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262D-2R						✓
24V DC I/O with 2 Analog In, 2 Analog Out, 6 Digital In, 3 Digital Out, 1 Relay & 2 Transistor Outputs	20-750-2263C-1R2T						✓

⚠ Only one card allowed per slot.

Safety Options








Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
DriveGuard Safe Torque-Off	20A-DG01	✓					
DriveGuard Safe Torque-Off w/2nd Encoder	20D-P2-DG01				✓	✓ +	
DriveGuard Safe Torque-Off (ATEX capable) ⚠	20C-DG1			✓			
Safe Torque-Off	20-750-S						✓
Safe Speed Monitor	20-750-S1						✓ ❄

⚠ Only one card allowed per slot.

+ When using PowerFlex 700S control.

❄ Requires the Dual Incremental Encoder option or Universal Feedback option.

PowerFlex 700 Control Option Kits

Control with I/O	Factory Installed Cat. Code 	Cat. No.	Used with PowerFlex Drive					
			70	700	700H	700S	700L	753/755
Vector Control - 24V DC with: 								
60 Hz Maximum	NNAD	20B-VECT-C0AD		✓				
82 Hz Maximum	NNAX	20B-VECTB-C0AX		✓				
Cascading Fan/Pump Control	NNAE	20B-VECT-C0AE		✓				
Pump Off (for Pump Jack)	NNBA	20B-VECTB-C0BA		✓				
Vector Control - 24V DC, Conformal Coat 	–	20B-VECTB-C0-MX3		✓				
Vector Control - 115V AC 	D 	20B-VECTB-D0		✓				
Vector Control - 115V AC with: 								
60 Hz Maximum	NNAD	20B-VECT-D0AD		✓				
82 Hz Maximum	NNAX	20B-VECTB-D0AX		✓				
Cascading Fan/Pump Control	NNAE	20B-VECT-D0AE		✓				
Pump Off (for Pump Jack)	NNBA	20B-VECT-D0BA		✓				
Vector Control - 115V AC, Conformal Coat 	–	20B-VECTB-D0-MX3		✓				

+ Vector Control option utilizes DPI Only.

⚡ This code is entered at the end of the drive catalog number (positions 17...20).

❄ This code is entered at position 15 of the drive catalog number.

PowerFlex 750-Series Option Kits

Description	Frame	Cat. No.	Used with PowerFlex Drive					
			70	700	700H	700S	700L	753/755
DC Bus Bar Option Kit	DC Bus Bars	6						✓
		7						✓
		8						✓
EMC Option Kit	EMC Plate with Core	2						✓
		3						✓
	EMC Plate with Cores	4						✓
		5						✓
	EMC Core	2						✓
		3						✓
	EMC Cores	4...5						✓
		8						✓
Flange Adapter Kit	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 1 integrity backside ‡	2						✓
		3						✓
		4						✓
		5						✓
	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 4X/12 integrity backside	6						✓
		7						✓
NEMA/UL Type 1 Option Kit	NEMA/UL Type 1 Kit	2						✓
		3						✓
		4						✓
		5						✓
		6						✓
		7						✓
Remote Control POD Mounting Kit §	Mounting hardware with 25 m (75 ft) fiber optic and 24V control cables for mounting the control POD in a cabinet that is separate from the drive.	8						✓
Roll-out Cart §	Provides a means to move the power core and allow access to the power terminals	8						✓

‡ This kit is for use with IP20, NEMA/UL Type 0 drives and **will not provide** an air-tight or water-tight seal. Where sealing is required (e.g. contaminated, dirty or wet environments), a drive with an "F" enclosure option must be used.

§ Required for Frame 8 drives without Option Bay to assist with power wiring.

Other Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
115V AC Interface	AK-M9-115VAC-1	✓					
Frame E Flange Gasket	AK-M9-GASKET1-E4	✓					
Service Connection Board *	SK-M9-SCB1	✓					
Removable I/O Terminal Block	SK-G9-TB1-S1		✓				
Removable Encoder Terminal Block	SK-G9-TB1-ENC1		✓				
Touch Cover - Converts IP00/Open Type drive to IP20/NEMA/UL Type 1. No wiring space provided.	20-OPT-TC			✓			
Top Hat- Converts IP00/Open Type drive to IP20/NEMA/UL Type 1. Allows for wiring space.	20-OPT-TH			✓			
Auxiliary Control Power Supply	20-24V-AUX1				✓		
24V Aux Power Supply	20-750-APS						✓
PowerFlex 700S Phase II Control with Expanded Cassette	20D-P2-CKE1				✓	✓ +	
PowerFlex 700S Phase II Control with Slim Cassette	20D-P2-CKS1				✓		
PowerFlex 700S DriveLogix5730 Phase II Control with Expanded Cassette	20D-DL2-CKE1				✓	✓ +	
PowerFlex 700S DriveLogix5730 Phase II Control with Slim Cassette	20D-DL2-CKS1				✓		

* Provides temporary DPI/HIM connection for NEMA/UL Type 1 and Flange drives with cover removed.

+ When using PowerFlex 700S control and Expanded Cassette.

SynchLink Accessories

Description *	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
SynchLink Board	20D-P2-SLB0				✓	✓ +	
SynchLink Fiber Base Block	1751-SLBA				✓	✓ +	
SynchLink 4-port Fiber Splitter Block	1751-SL4SP				✓	✓ +	
SynchLink Fiber Bypass Switch Block	1751-SLBP				✓	✓ +	
2x1 Meter Fiber Link for Power Monitor/SynchLink	1403-CF001				✓	✓ +	
2x3 Meter Fiber Link for Power Monitor/SynchLink	1403-CF003				✓	✓ +	
2x5 Meter Fiber Link for Power Monitor/SynchLink	1403-CF005				✓	✓ +	
10 Meter Fiber Link for Power Monitor/SynchLink	1403-CF010				✓	✓ +	
20 Meter Fiber Link for Power Monitor/SynchLink	1403-CF020				✓	✓ +	
50 Meter Fiber Link for Power Monitor/SynchLink	1403-CF050				✓	✓ +	
100 Meter Fiber Link for Power Monitor/SynchLink	1403-CF100				✓	✓ +	
250 Meter Fiber Link for Power Monitor/SynchLink	1403-CF250				✓	✓ +	

* Refer to publication number [1769-SG001](#) for details on SynchLink.

+ When using PowerFlex 700S control.

DriveLogix Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Logix Expansion board for DriveLogix5730 ➤	20D-DL2-LEB0				✓	✓ +	
Industrial Compact Flash 64 MB Memory Card for DriveLogix5730	1784-CF64				✓	✓ +	

➤ Requires Expanded Cassette.

+ When using PowerFlex 700S control.

DriveLogix I/O Cables

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
DriveLogix5730 - Compact I/O cable, 3.28 ft. (1 meter), Left Bus Cap ➤ §	20D-DL2-CL3				✓	✓ +	
DriveLogix5730 - Compact I/O cable, 3.28 ft. (1 meter), Right Bus Cap ➤ §	20D-DL2-CR3				✓	✓ +	
Logix5000 RS-232 Programming Cable	1756-CP3				✓	✓ +	


➤ Requires Expanded Cassette.

§ Refer to Publication [1769-SG001](#) for details and selection of Compact I/O.

+ When using PowerFlex 700S control.

PowerFlex 70 Small Duty Internal Dynamic Brake Resistors

Limited duty resistors mount directly to the back surface of the drive and require no extra panel space. Internal resistors are non-destructive and do not require a resistor overheat external safety circuit.

PowerFlex 70 AC Drive			Small Duty Internal DB Resistor								
Normal Duty* <i>kW (Hp)</i>	Heavy Duty* <i>kW (Hp)</i>	Min DB Res <i>Ohms ±10%</i>	Cat. No.	Resistance  <i>Ohms ±5%</i>	Continuous Power <i>kW</i>	Max Energy <i>kJ</i>	Max Braking Torque <i>% of ND Motor</i>	Application Type 1		Application Type 2	
								Braking Torque <i>% of ND Motor</i>	Duty Cycle	Braking Torque <i>% of ND Motor</i>	Duty Cycle
200...240 Volt AC Input Drives											
0.37 (0.5)	0.25 (0.33)	33	20AB-DB1-A	62	0.048	8.3	307%	100%	25.9%	150%	17.3%
0.75 (1.0)	0.55 (0.75)	33	20AB-DB1-A	62	0.048	7.3	300%	100%	12.8%	150%	8.5%
1.5 (2.0)	1.1 (1.5)	33	20AB-DB1-B	62	0.028	0.8	160%	100%	3.7%	150%	2.5%
2.2 (3.0)	1.5 (2.0)	33	20AB-DB1-B	62	0.028	0.8	109%	100%	2.5%	109%	2.3%
4.0 (5.0)	3.0 (3.0)	30	20AB-DB1-C	62	0.040	0.8	60%	60%	3.3%	N/A	N/A
5.5 (7.5)	4.0 (5.0)	21	20AB-DB1-D	22	0.036	0.9	117%	100%	1.3%	117%	1.1%
7.5 (10)	5.5 (7.5)	21	20AB-DB1-D	22	0.036	0.9	86%	86%	1.1%	N/A	N/A
400...480 Volt AC Input Drives											
0.37 (0.5)	0.25 (0.33)	68	20AD-DB1-A	115	0.048	8.3	320%	100%	25.9%	150%	17.3%
0.75 (1.0)	0.55 (0.75)	68	20AD-DB1-A	115	0.048	9.0	259%	100%	12.8%	150%	8.5%
1.5 (2.0)	1.1 (1.5)	68	20AD-DB1-A	115	0.048	2.4	243%	100%	6.4%	150%	4.3%
2.2 (3.0)	1.5 (2.0)	68	20AD-DB1-B	115	0.028	0.9	206%	100%	2.5%	150%	1.7%
4.0 (5.0)	3.0 (3.0)	68	20AD-DB1-B	115	0.028	0.9	129%	100%	1.4%	129%	1.1%
5.5 (7.5)	4.0 (5.0)	74	20AD-DB1-C	115	0.04	0.9	94%	94%	1.5%	N/A	N/A
7.5 (10)	5.5 (7.5)	74	20AD-DB1-C	115	0.04	0.9	69%	69%	1.5%	N/A	N/A
11 (15)	7.5 (10)	44	20AD-DB1-D	62	0.036	0.8	87%	87%	0.8%	N/A	N/A
15 (20)	11 (15)	31	20AD-DB1-D	62	0.036	0.8	64%	64%	0.8%	N/A	N/A
500...600 Volt AC Input Drives											
0.37 (0.5)	0.25 (0.33)	117	20AD-DB1-A	115	0.048	8.3	287%	100%	25.9%	150%	17.3%
0.75 (1.0)	0.55 (0.75)	117	20AD-DB1-A	115	0.048	9.0	263%	100%	12.8%	150%	8.5%
1.5 (2.0)	1.1 (1.5)	117	20AD-DB1-A	115	0.048	2.4	243%	100%	6.4%	150%	4.3%
2.2 (3.0)	1.5 (2.0)	117	20AD-DB1-B	115	0.028	0.9	202%	100%	2.5%	150%	1.7%
4.0 (5.0)	3.0 (3.0)	80	20AD-DB1-B	115	0.028	0.9	193%	100%	1.4%	150%	0.9%
5.5 (7.5)	4.0 (5.0)	80	20AD-DB1-C	115	0.04	0.9	147%	100%	1.5%	147%	1.0%
7.5 (10)	5.5 (7.5)	80	20AD-DB1-C	115	0.04	0.9	108%	100%	1.1%	108%	1.0%
11 (15)	7.5 (10)	48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 (20)	11 (15)	48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Duty cycle listed is based on full speed to zero speed deceleration. For constant regen at full speed, duty cycle capability is half of what is listed. Application Type 1 represents maximum capability up to 100% braking torque where possible. Application Type 2 represents more than 100% braking torque where possible, up to a maximum of 150%.

⊗ Always check resistor Ohms against minimum resistance for drive being used.

PowerFlex 70 Medium Duty External Dynamic Brake Resistors

These resistors provide a larger duty cycle capability than the internal type. Includes an internal thermal switch for use in external safety circuit.

PowerFlex 70 AC Drive			Medium Duty External DB Resistor								
Normal Duty* kW (Hp)	Heavy Duty* kW (Hp)	Min DB Res Ohms ±10%	Cat. No.	Resistance ⊗ Ohms ±5%	Continuous Power kW	Max Energy kJ	Max Braking Torque % of ND Motor	Application Type 1		Application Type 2	
								Braking Torque % of ND Motor	Duty Cycle	Braking Torque % of ND Motor	Duty Cycle
200...240 Volt AC Input Drives											
0.37 (0.5)	0.25 (0.33)	33	AK-R2-091P500	91	0.086	17	293%	100%	46%	150%	31%
0.75 (1.0)	0.55 (0.75)	33	AK-R2-091P500	91	0.086	17	218%	100%	23%	150%	15%
1.5 (2.0)	1.1 (1.5)	33	AK-R2-091P500	91	0.086	17	109%	100%	11%	109%	11%
2.2 (3.0)	1.5 (2.0)	33	AK-R2-047P500	47	0.166	33	144%	100%	15%	144%	11%
4.0 (5.0)	3.0 (3.0)	30	AK-R2-047P500	47	0.166	33	79%	79%	11%	N/A	N/A
5.5 (7.5)	4.0 (5.0)	23	AK-R2-030P1K2	30	0.26	52	90%	90%	10%	N/A	N/A
7.5 (10)	5.5 (7.5)	23	AK-R2-030P1K2	30	0.26	52	66%	66%	10%	N/A	N/A
400...480 Volt AC Input Drives											
0.37 (0.5)	0.25 (0.33)	68	AK-R2-360P500	360	0.086	17	305%	100%	47%	150%	31%
0.75 (1.0)	0.55 (0.75)	68	AK-R2-360P500	360	0.086	17	220%	100%	23%	150%	15%
1.5 (2.0)	1.1 (1.5)	68	AK-R2-360P500	360	0.086	17	110%	100%	12%	110%	11%
2.2 (3.0)	1.5 (2.0)	68	AK-R2-120P1K2	120	0.26	52	197%	100%	24%	150%	16%
4.0 (5.0)	3.0 (3.0)	68	AK-R2-120P1K2	120	0.26	52	124%	100%	13%	124%	10%
5.5 (7.5)	4.0 (5.0)	74	AK-R2-120P1K2	120	0.26	52	90%	90%	10%	N/A	N/A
7.5 (10)	5.5 (7.5)	74	AK-R2-120P1K2	120	0.26	52	66%	66%	10%	N/A	N/A
11 (15) ‡	7.5 (10) ‡	44	‡	60	0.52	104	90%	90%	10%	N/A	N/A
15 (20) ‡	11 (15) ‡	31	‡	60	0.52	104	66%	66%	10%	N/A	N/A
500...600 Volt AC Input Drives											
0.37 (0.5)	0.25 (0.33)	117	AK-R2-360P500	360	0.086	17	274%	100%	46%	150%	31%
0.75 (1.0)	0.55 (0.75)	117	AK-R2-360P500	360	0.086	17	251%	100%	23%	150%	15%
1.5 (2.0)	1.1 (1.5)	117	AK-R2-360P500	360	0.086	17	172%	100%	11%	150%	8%
2.2 (3.0)	1.5 (2.0)	117	AK-R2-120P1K2	120	0.26	52	193%	100%	24%	150%	16%
4.0 (5.0)	3.0 (3.0)	80	AK-R2-120P1K2	120	0.26	52	185%	100%	13%	150%	9%
5.5 (7.5)	4.0 (5.0)	80	AK-R2-120P1K2	120	0.26	52	141%	100%	9%	141%	7%
7.5 (10)	5.5 (7.5)	80	AK-R2-120P1K2	120	0.26	52	103%	100%	7%	103%	7%
11 (15) ‡	7.5 (10) ‡	48	‡	60	0.52	104	141%	100%	9%	141%	7%
15 (20) ‡	11 (15) ‡	48	‡	60	0.52	104	103%	100%	7%	103%	7%

* Duty cycle listed is based on full speed to zero speed deceleration. For constant regen at full speed, duty cycle capability is half of what is listed. Application Type 1 represents maximum capability up to 100% braking torque where possible. Application Type 2 represents more than 100% braking torque where possible, up to a maximum of 150%.

⊗ Always check resistor Ohms against minimum resistance for drive being used.

‡ For 11 and 15 kW (15 and 20 Hp) applications, use two 7.5 kW (10 Hp) size resistors wired in parallel.

Internal Dynamic Brake Resistor Kits

These resistors have a limited duty cycle. Refer to the PowerFlex Dynamic Braking Selection Guide to determine if an internal resistor will be sufficient for your application. An external resistor may be required.

Drive Input Voltage	Brake Resistance	Frame	Cat. No.	Used with PowerFlex Drive					
	Ω			70	700	700H	700S	700L	753/755
208...240V AC	62	0	20BB-DB1-0		✓		✓		
	62	1 (except 7.5 Hp)	20BB-DB1-1		✓		✓		
	22	1 (7.5 Hp)	20BB-DB2-1		✓		✓		
	22	2	20BB-DB1-2		✓		✓		
380...600V AC	115	0	20BD-DB1-0		✓		✓		
	115	1	20BD-DB1-1		✓		✓		
	68	2	20BD-DB1-2		✓		✓		
	68	2	20-750-DB1-D2						✓

Dynamic Brake, Chopper Only Kits

Voltage	Rating	Peak Transistor Current Rating (A)	Minimum DB Resistance (Ohms)	Cat. No.	Used with PowerFlex Drive					
					70	700	700H	700S	700L	753/755
200...240V AC	18A	50	9	1336-WA018		✓		✓		
	70A	200	2.3	1336-WA070		✓		✓		
	115A	400	1.25	1336-WA115		✓		✓		
380...480V AC	9A	25	37	1336-WB009		✓	✓	✓		✓
	35A	100	9	1336-WB035		✓	✓	✓		✓
	110A	400	2.5	1336-WB110		✓	✓	✓		✓
500...600V AC	9A	25	46	1336-WC009		✓	✓	✓		
	35A	75	15.5	1336-WC035		✓	✓	✓		
	85A	400	3	1336-WC085		✓	✓	✓		

Terminators

Description ☼	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
for use with 3.7 kW (5 Hp) & below drives	1204-TFA1	✓	✓		✓	✓	✓
for use with 1.5 kW (2 Hp) & up drives	1204-TFB2	✓	✓	✓	✓	✓	✓

☼ Refer to Appendix A of publication [Drives-IN001](#) for selection information.

Reflected Wave Reduction Modules w/Common Mode Choke

Description ☼	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
17A with Common Mode Choke	1204-RWC-17-A	✓	✓	✓	✓		✓

☼ Refer to Appendix A of publication [Drives-IN001](#) for selection information.

Reflected Wave Reduction Modules

Voltage	ND kW	ND Hp	Cat. No.	Used with PowerFlex Drive					
				70	700	700H	700S	700L	753/755
380...480V AC	4	5	1321-RWR8-DP	✓	✓		✓		✓
	5.5	7.5	1321-RWR12-DP	✓	✓		✓		✓
	7.5	10	1321-RWR18-DP	✓	✓		✓		✓
	11	15	1321-RWR25-DP	✓	✓		✓		✓
	15	20	1321-RWR35-DP	✓	✓		✓		✓
	18.5	25	1321-RWR35-DP	✓	✓		✓		✓
	22	30	1321-RWR45-DP	✓	✓		✓		✓
	30	40	1321-RWR55-DP	✓	✓		✓		✓
	37	50	1321-RWR80-DP	✓	✓		✓		✓
	45	60	1321-RWR80-DP		✓		✓		✓
	55	75	1321-RWR100-DP		✓		✓		✓
	75	100	1321-RWR130-DP		✓		✓		✓
	75	100	1321-RWR160-DP				✓		
	90	125	1321-RWR160-DP		✓		✓		✓
	110	150	1321-RWR200-DP		✓		✓		✓
	149	200	1321-RWR250-DP		✓	✓	✓		✓
	149	200	1321-RWR320-DP				✓		
	187	250	1321-RWR320-DP		✓	✓	✓		✓
500...600V AC	4	5	1321-RWR8-EP	✓	✓		✓		
	5.5	7.5	1321-RWR8-EP				✓		
	5.5	7.5	1321-RWR12-EP	✓	✓				
	7.5	10	1321-RWR12-EP	✓	✓		✓		
	11	15	1321-RWR18-EP	✓	✓		✓		
	15	20	1321-RWR25-EP	✓	✓		✓		
	18.5	25	1321-RWR25-EP				✓		
	18.5	25	1321-RWR35-EP	✓	✓				
	22	30	1321-RWR35-EP	✓	✓		✓		
	30	40	1321-RWR45-EP	✓	✓		✓		
	37	50	1321-RWR55-EP	✓	✓		✓		
	45	60	1321-RWR80-EP		✓		✓		
	55	75	1321-RWR80-EP		✓		✓		
	75	100	1321-RWR100-EP		✓		✓		
	90	125	1321-RWR130-EP		✓		✓		
	110	150	1321-RWR160-EP		✓		✓		
	110	150	1321-RWR200-EP				✓		
	149	200	1321-RWR200-EP				✓		

1492 Wiring System Modules and Cables

Wiring System Modules and Cables provide an easy means to extend drive control wiring. A pre-wired cable (available in various lengths) plugs into the appropriate drive I/O terminal block. The remaining cable end plugs into the Wiring Module which provides a terminal block for direct I/O connection. See publication [1492-TD008](#) for detailed information.

1492 Wiring Module and Cable Selection

Drive I/O	Wiring Module Description	Wiring Module Cat. No.		PowerFlex 700H Cable (see below)	PowerFlex 700S Cable (see below)	Used with PowerFlex Drive					
		Fixed Terminal Block	Removable Terminal Block			70	700	700H	700S	700L	753/755
Analog I/O (TB1)	6 Channel Isolated - 3 Terminals/Ch.	1492-AIFM6S-3	1492-RAIFM6S-3	1492-ACABxxxZ7H	1492-ACABxxxZ7S			✓	✓		
DC Discrete Digital I/O (TB2)	Standard, 264V AC/DC	1492-IFM20F	1492-RIFM20F	1492-CABxxxA7H	1492-CABxxxA7S			✓	✓		
	Narrow Standard, 132V AC/DC	1492-IFM20FN	1492-RIFM20FN	1492-CABxxxA7H	1492-CABxxxA7S			✓	✓		
	Extra Terminals (2 per I/O), 264V AC/DC	1492-IFM20F-2	1492-RIFM20F-2	1492-CABxxxA7H	1492-CABxxxA7S			✓	✓		
AC Discrete Digital I/O (20C-DA1-B & 20C-DO1)	Standard, 264V AC/DC	1492-IFM20F	1492-RIFM20F	1492-CABxxxB7H	1492-CABxxxB7H			✓			
	Narrow Standard, 132V AC/DC	1492-IFM20FN	1492-RIFM20FN	1492-CABxxxB7H	1492-CABxxxB7H			✓			
	Extra Terminals (2 per I/O), 264V AC/DC	1492-IFM20F-2	1492-RIFM20F-2	1492-CABxxxB7H	1492-CABxxxB7H			✓			
Encoder	2 Channel Encoder Input - 4 Outputs	1492-AIFMCE4	–	1492-ACABxxxX7S	1492-ACABxxxX7S				✓		
	2 Channel Fused Encoder Input - 4 Fused Outputs	1492-AIFMCE4-F	–	1492-ACABxxxX7S	1492-ACABxxxX7S				✓		

1492 Pre-Wired Cable Assemblies

Description	PowerFlex 700H Cat. No.	PowerFlex 700S Cat. No.	Used with PowerFlex Drive					
			70	700	700H	700S	700L	753/755
Pre-Wired Cable for Analog I/O								
0.5 Meter (1.6 Feet)	1492-ACAB005Z7H	1492-ACAB005Z7S			✓	✓		
1.0 Meter (3.3 Feet)	1492-ACAB010Z7H	1492-ACAB010Z7S			✓	✓		
2.5 Meters (8.2 Feet)	1492-ACAB025Z7H	1492-ACAB025Z7S			✓	✓		
5.0 Meters (16.4 Feet)	1492-ACAB050Z7H	1492-ACAB050Z7S			✓	✓		
Pre-Wired Cable for Discrete DC I/O								
0.5 Meter (1.6 Feet)	1492-CAB005A7H	1492-CAB005A7S			✓	✓		
1.0 Meter (3.3 Feet)	1492-CAB010A7H	1492-CAB005A7S			✓	✓		
2.5 Meters (8.2 Feet)	1492-CAB025A7H	1492-CAB025A7S			✓	✓		
5.0 Meters (16.4 Feet)	1492-CAB050A7H	1492-CAB050A7S			✓	✓		
Pre-Wired Cable for Discrete AC I/O								
0.5 Meter (1.6 Feet)	1492-CAB005B7H	–			✓			
1.0 Meter (3.3 Feet)	1492-CAB010B7H	–			✓			
2.5 Meters (8.2 Feet)	1492-CAB025B7H	–			✓			
5.0 Meters (16.4 Feet)	1492-CAB050B7H	–			✓			
Pre-Wired Cable for Encoder								
0.5 Meter (1.6 Feet)	–	1492-ACAB005X7S				✓		
1.0 Meter (3.3 Feet)	–	1492-ACAB010X7S				✓		
2.5 Meters (8.2 Feet)	–	1492-ACAB025X7S				✓		
5.0 Meters (16.4 Feet)	–	1492-ACAB050X7S				✓		

Isolation Transformers - IP32, NEMA/UL Type 3R Standalone, 4...6% Nominal Impedance

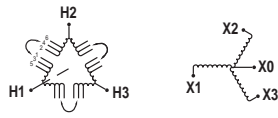


Diagram 1

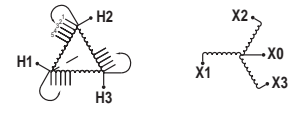


Diagram 2

Motor Rating		Wiring Diagram	240V, 60 Hz, Three-Phase, 240V Primary & 240V Secondary *	460V, 60 Hz, Three-Phase, 460V Primary & 460V Secondary	575V, 60 Hz, Three-Phase 575V Primary & 575V Secondary *	Used with PowerFlex Drive					
kW	Hp		Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	1	1321-3TW005-AA	1321-3TW005-BB	–	✓	✓		✓		
0.37	0.5	1	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC	✓	✓		✓		
0.55	0.75	1	1321-3TW005-AA	1321-3TW005-BB	–	✓	✓		✓		
0.75	1	1	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC	✓	✓		✓		✓
1.1	1.5	1	1321-3TW005-AA	1321-3TW005-BB	–	✓	✓		✓		
1.5	2	1	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC	✓	✓		✓		✓
2.2	3	1	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC	✓	✓		✓		✓
4	5	1	1321-3TW007-AA	1321-3TW007-BB	1321-3TW007-CC	✓	✓		✓		✓
5.5	7.5	1	1321-3TW011-AA	1321-3TW011-BB	1321-3TW011-CC	✓	✓		✓		✓
7.5	10	1	1321-3TW014-AA	1321-3TW014-BB	1321-3TW014-CC	✓	✓		✓		✓
11	15	2	1321-3TW020-AA	1321-3TW020-BB	1321-3TW020-CC	✓	✓		✓		✓
15	20	2	1321-3TW027-AA	1321-3TW027-BB	1321-3TW027-CC	✓	✓		✓		✓
18.5	25	2	1321-3TW034-AA	1321-3TW034-BB	1321-3TW034-CC	✓	✓		✓		✓
22	30	2	1321-3TW040-AA	1321-3TW040-BB	1321-3TW040-CC	✓	✓		✓		✓
30	40	2	1321-3TW051-AA	1321-3TW051-BB	1321-3TW051-CC	✓	✓		✓		✓
37	50	2	1321-3TH063-AA	1321-3TH063-BB	1321-3TH063-CC	✓	✓		✓		✓
45	60	2	1321-3TH075-AA	1321-3TH075-BB	1321-3TH075-CC		✓		✓		✓
55	75	2	1321-3TH093-AA	1321-3TH093-BB	1321-3TH093-CC		✓		✓		✓
75	100	2	–	1321-3TH118-BB	1321-3TH118-CC		✓		✓		✓
90	125	2	–	1321-3TH145-BB	1321-3TH145-CC		✓		✓		✓
110	150	2	–	1321-3TH175-BB	1321-3TH175-CC		✓	✓	✓		✓
149	200	2	–	1321-3TH220-BB	1321-3TH220-CC		✓	✓	✓		✓
187	250	2	–	1321-3TH275-BB	1321-3TH275-CC		✓	✓			✓
224	300	2	–	1321-3TH330-BB	1321-3TH330-CC		✓	✓			✓
261	350	1	–	1321-3TH440-BB	1321-3TH440-CC		✓	✓			✓
298	400	1	–	1321-3TH440-BB	1321-3TH440-CC		✓	✓			✓
336	450	1	–	1321-3TH550-BB	1321-3TH550-CC		✓	✓			✓
373	500	1	–	1321-3TH550-BB	1321-3TH550-CC		✓	✓			✓
448	600	1	–	1321-3TH660-BB	1321-3TH660-CC		✓	✓			✓
485	650	1	–	–	1321-3TH770-CC		✓	✓			
522	700	1	–	1321-3TH770-BB	1321-3TH770-CC		✓	✓			✓

* Not applicable for the PowerFlex 755.

Input and Output Line Reactors - 200...240V, 50/60 Hz, Three-Phase, 3% Impedance

kW	Hp	Duty	Input Line Reactor ☼		Output Reactor ☼		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	Heavy	1321-3R2-D	1321-3RA2-D	1321-3R2-D	1321-3RA2-D	✓	✓		✓		
0.37	0.5	Normal	1321-3R2-D	1321-3RA2-D	1321-3R2-D	1321-3RA2-D	✓	✓		✓		
0.55	0.75	Heavy	1321-3R4-A	1321-3RA4-A	1321-3R4-A	1321-3RA4-A	✓	✓		✓		
0.75	1	Normal	1321-3R4-A	1321-3RA4-A	1321-3R4-A	1321-3RA4-A	✓	✓		✓		
1.1	1.5	Heavy	1321-3R8-B	1321-3RA8-B	1321-3R8-A	1321-3RA8-A	✓	✓		✓		
1.5	2	Normal	1321-3R8-A	1321-3RA8-A	1321-3R8-A	1321-3RA8-A	✓	✓		✓		
		Heavy	1321-3R8-A	1321-3RA8-A	1321-3R12-A	1321-3RA12-A	✓	✓		✓		
2.2	3	Normal	1321-3R12-A	1321-3RA12-A	1321-3R12-A	1321-3RA12-A	✓	✓		✓		
		Heavy	1321-3R12-A	1321-3RA12-A	1321-3R18-A	1321-3RA18-A	✓	✓		✓		
4	5	Normal	1321-3R18-A	1321-3RA18-A	1321-3R18-A	1321-3RA18-A	✓	✓		✓		
		Heavy	1321-3R18-A	1321-3RA18-A	1321-3R25-A	1321-3RA25-A	✓	✓		✓		
5.5	7.5	Normal	1321-3R25-A	1321-3RA25-A	1321-3R25-A	1321-3RA25-A	✓	✓		✓		
		Heavy	1321-3R25-A	1321-3RA25-A	1321-3R35-A	1321-3RA35-A	✓	✓		✓		
7.5	10	Normal	1321-3R35-A	1321-3RA35-A	1321-3R35-A	1321-3RA35-A	✓	✓		✓		
		Heavy	1321-3R35-A	1321-3RA35-A	1321-3R45-A	1321-3RA45-A	✓	✓		✓		
11	15	Normal	1321-3R45-A	1321-3RA45-A	1321-3R45-A	1321-3RA45-A	✓	✓		✓		
		Heavy	1321-3R45-A	1321-3RA45-A	1321-3R55-A	1321-3RA55-A	✓	✓		✓		
15	20	Normal	1321-3R55-A	1321-3RA55-A	1321-3R55-A	1321-3RA55-A	✓	✓		✓		
		Heavy	1321-3R55-A	1321-3RA55-A	1321-3R80-A	1321-3RA80-A	✓	✓		✓		
18.5	25	Normal	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A	✓	✓		✓		
		Heavy	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A		✓		✓		
22	30	Normal	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A		✓		✓		
		Heavy	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A		✓		✓		
30	40	Normal	1321-3R100-A	1321-3RA100-A	1321-3R100-A	1321-3RA100-A		✓		✓		
		Heavy	1321-3R100-A	1321-3RA100-A	1321-3R100-A	1321-3RA100-A		✓		✓		
37	50	Normal	1321-3R130-A	1321-3RA130-A	1321-3R130-A	1321-3RA130-A		✓		✓		
		Heavy	1321-3R130-A	1321-3RA130-A	1321-3R130-A	1321-3RA130-A		✓		✓		
45	60	Normal	1321-3R160-A	1321-3RA160-A	1321-3R160-A	1321-3RA160-A		✓		✓		
		Heavy	1321-3R160-A	1321-3RA160-A	1321-3R160-A	1321-3RA160-A		✓		✓		
55	75	Normal	1321-3R200-A	1321-3RA200-A	1321-3R200-A	1321-3RA200-A		✓		✓		
		Heavy	1321-3R200-A	1321-3RA200-A	1321-3R200-A	1321-3RA200-A		✓		✓		
75	100	Normal	1321-3RB250-A	1321-3RAB250-A	1321-3RB250-A	1321-3RAB250-A		✓		✓		

☼ Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

Input and Output Line Reactors - 200...240V, 50/60 Hz, Three-Phase, 5% Impedance

kW	Hp	Duty	Input Line Reactor ☼		Output Reactor ☼		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	Heavy	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A	✓	✓		✓		
0.37	0.5	Normal	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A	✓	✓		✓		
0.55	0.75	Heavy	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B	✓	✓		✓		
0.75	1	Normal	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B	✓	✓		✓		
1.1	1.5	Heavy	1321-3R8-B	1321-3RA8-B	1321-3R8-B	1321-3RA8-B	✓	✓		✓		
1.5	2	Normal	1321-3R8-B	1321-3RA8-B	1321-3R8-B	1321-3RA8-B	✓	✓		✓		
		Heavy	1321-3R8-B	1321-3RA8-B	1321-3R12-B	1321-3RA12-B	✓	✓		✓		
2.2	3	Normal	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B	✓	✓		✓		
		Heavy	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B	✓	✓		✓		
4	5	Normal	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B	✓	✓		✓		
		Heavy	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		
5.5	7.5	Normal	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		
		Heavy	1321-3R25-B	1321-3RA25-B	1321-3R35-B	1321-3RA35-B	✓	✓		✓		
7.5	10	Normal	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B	✓	✓		✓		
		Heavy	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B	✓	✓		✓		
11	15	Normal	1321-3R45-B	1321-3RA45-B	1321-3R45-B	1321-3RA45-B	✓	✓		✓		
		Heavy	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B	✓	✓		✓		
15	20	Normal	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B	✓	✓		✓		
		Heavy	1321-3R55-B	1321-3RA55-B	1321-3R80-B	1321-3RA80-B	✓	✓		✓		
18.5	25	Normal	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
		Heavy	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
22	30	Normal	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
		Heavy	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
30	40	Normal	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B		✓		✓		
		Heavy	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B		✓		✓		
37	50	Normal	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B		✓		✓		
		Heavy	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B		✓		✓		
45	60	Normal	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B		✓		✓		
		Heavy	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B		✓		✓		
55	75	Normal	1321-3R200-B	1321-3RA200-B	1321-3R200-B	1321-3RA200-B		✓		✓		
		Heavy	1321-3R200-B	1321-3RA200-B	1321-3R200-B	1321-3RA200-B		✓		✓		
75	100	Normal	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-B		✓		✓		

☼ Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

Input and Output Line Reactors - 380...480V, 50/60 Hz, Three-Phase, 3% Impedance

kW	Hp	Duty	Input Line Reactor ⚙		Output Reactor ⚙		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	Heavy	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B	✓	✓		✓		
0.37	0.5	Normal	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B	✓	✓		✓		
0.55	0.75	Heavy	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A	✓	✓		✓		
0.75	1	Normal	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A	✓	✓		✓		✓
1.1	1.5	Heavy	1321-3R4-C	1321-3RA4-C	1321-3R4-B	1321-3RA4-B	✓	✓		✓		✓
1.5	2	Normal	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B	✓	✓		✓		✓
		Heavy	1321-3R4-B	1321-3RA4-B	1321-3R8-C	1321-3RA8-C	✓	✓		✓		✓
2.2	3	Normal	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C	✓	✓		✓		✓
		Heavy	1321-3R8-C	1321-3RA8-C	1321-3R8-B	1321-3RA8-B	✓	✓		✓		✓
4	5	Normal	1321-3R8-B	1321-3RA8-B	1321-3R8-B	1321-3RA8-B	✓	✓		✓		✓
		Heavy	1321-3R8-B	1321-3RA8-B	1321-3R12-B	1321-3RA12-B	✓	✓		✓		✓
5.5	7.5	Normal	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B	✓	✓		✓		✓
		Heavy	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B	✓	✓		✓		✓
7.5	10	Normal	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B	✓	✓		✓		✓
		Heavy	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		✓
11	15	Normal	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		✓
		Heavy	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		✓
15	20	Normal	1321-3R35-B	1321-3RA35-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		✓
		Heavy	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B	✓	✓		✓		✓
18.5	25	Normal	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B	✓	✓		✓		✓
		Heavy	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B	✓	✓		✓		✓
22	30	Normal	1321-3R45-B	1321-3RA45-B	1321-3R45-B	1321-3RA45-B	✓	✓		✓		✓
		Heavy	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B	✓	✓		✓		✓
30	40	Normal	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B	✓	✓		✓		✓
		Heavy	1321-3R55-B	1321-3RA55-B	1321-3R80-B	1321-3RA80-B	✓	✓		✓		✓
37	50	Normal	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B	✓	✓		✓		✓
		Heavy	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		✓
45	60	Normal	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		✓
		Heavy	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		✓
55	75	Normal	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B		✓		✓		✓
		Heavy	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B		✓		✓		✓
75	100	Normal	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B		✓		✓		✓
		Heavy	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B		✓		✓		✓
90	125	Normal	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B		✓		✓		✓
		Heavy	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B		✓		✓		✓
110	150	Normal	1321-3R200-B	1321-3RA200-B	1321-3R200-C	1321-3RA200-C		✓	✓	✓		✓
		Heavy	1321-3R200-B	1321-3RA200-B	1321-3R200-C	1321-3RA200-C		✓		✓		✓
		Heavy	—	—	1321-3R200-B	1321-3RA200-B			✓			
149	200	Normal	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-B		✓	✓	✓		✓
		Heavy	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-B		✓	✓	✓		✓
187	250	Normal	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B		✓	✓			✓
		Heavy	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B		✓	✓			✓
224	300	Normal	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B		✓	✓			✓
		Heavy	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B		✓	✓			✓

continued

⚙ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

‡ Requires two output reactors wired in parallel.

Input and Output Line Reactors - 380...480V, 50/60 Hz, Three-Phase, 3% Impedance (continued)

kW	Hp	Duty ➤	Input Line Reactor ⌘		Output Reactor ⌘		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
261	350	Normal	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B		✓	✓			
		Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B			✓			✓
		Heavy	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B		✓	✓			
		Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B		✓	✓			✓
298	400	Light	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B						✓
		Normal	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B		✓				✓
		Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B		✓				✓
336	450	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B						✓
		Normal	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B						✓
		Normal	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B		✓	✓			
		Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B		✓	✓			
		Heavy	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B						✓
373	500	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B						✓
		Normal	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B		✓	✓			
		Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B						✓
		Heavy	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B		✓				
		Heavy	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B						✓
448	600	Light	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B						✓
		Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B		✓				✓
		Heavy	–	–	1321-3R750-B	1321-3RA750-B			✓			
		Heavy	1321-3R750-B	1321-3RA750-B	1321-3R600-B	1321-3RA600-B		✓				
485	650	Light	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B						✓
		Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B						✓
522	700	Light	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B						✓
		Normal	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B		✓				✓
		Normal	–	–	1321-3RB400-B	1321-3RAB400-B			✓ ‡			
597	800	Heavy	–	–	1321-3RB400-B	1321-3RAB400-B			✓ ‡			
		Normal	–	–	1321-3R500-B	1321-3RA500-B			✓ ‡			
671	900	Heavy	–	–	1321-3R500-B	1321-3RA500-B			✓ ‡			
		Normal	–	–	1321-3R600-B	1321-3RA600-B			✓ ‡			
746	1000	Heavy	–	–	1321-3R600-B	1321-3RA600-B			✓ ‡			
		Normal	–	–	1321-3R750-B	1321-3RA750-B			✓ ‡			
895	1200	Normal	–	–	1321-3R750-B	1321-3RA750-B			✓ ‡			
933	1250	Normal	–	–	1321-3R750-B	1321-3RA750-B			✓ ‡			

⌘ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

‡ Requires two output reactors wired in parallel.

➤ Light Duty refers to PowerFlex 755 drives only.

Input and Output Line Reactors - 380...480V, 50/60 Hz, Three-Phase, 5% Impedance

kW	Hp	Duty	Input Line Reactor ⚙		Output Reactor ⚙		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	Heavy	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C	✓	✓		✓		
0.37	0.5	Normal	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C	✓	✓		✓		
0.55	0.75	Heavy	1321-3R2-C	1321-3RA2-C	1321-3R2-B	1321-3RA2-B	✓	✓		✓		
0.75	1	Normal	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B	✓	✓		✓		✓
1.1	1.5	Heavy	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D	✓	✓		✓		✓
1.5	2	Normal	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D	✓	✓		✓		✓
		Heavy	1321-3R4-D	1321-3RA4-D	1321-3R8-D	1321-3RA8-D	✓	✓		✓		✓
2.2	3	Normal	1321-3R8-D	1321-3RA8-D	1321-3R8-D	1321-3RA8-D	✓	✓		✓		✓
		Heavy	1321-3R8-D	1321-3RA8-D	1321-3R8-C	1321-3RA8-C	✓	✓		✓		✓
4	5	Normal	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C	✓	✓		✓		✓
		Heavy	1321-3R8-C	1321-3RA8-C	1321-3R12-C	1321-3RA12-C	✓	✓		✓		✓
5.5	7.5	Normal	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C	✓	✓		✓		✓
		Heavy	1321-3R12-C	1321-3RA12-C	1321-3R18-C	1321-3RA18-C	✓	✓		✓		✓
7.5	10	Normal	1321-3R18-C	1321-3RA18-C	1321-3R18-C	1321-3RA18-C	✓	✓		✓		✓
		Heavy	1321-3R18-C	1321-3RA18-C	1321-3R25-C	1321-3RA25-C	✓	✓		✓		✓
11	15	Normal	1321-3R25-C	1321-3RA25-C	1321-3R25-C	1321-3RA25-C	✓	✓		✓		✓
		Heavy	1321-3R25-C	1321-3RA25-C	1321-3R25-C	1321-3RA25-C	✓	✓		✓		✓
15	20	Normal	1321-3R35-C‡	1321-3RA35-C‡	1321-3R25-C	1321-3RA25-C	✓	✓		✓		✓
		Heavy	1321-3R35-C‡	1321-3RA35-C‡	1321-3R35-C	1321-3RA35-C	✓	✓		✓		✓
18.5	25	Normal	1321-3R35-C	1321-3RA35-C	1321-3R35-C	1321-3RA35-C	✓	✓		✓		✓
		Heavy	1321-3R35-C	1321-3RA35-C	1321-3R45-C	1321-3RA45-C	✓	✓		✓		✓
22	30	Normal	1321-3R45-C	1321-3RA45-C	1321-3R45-C	1321-3RA45-C	✓	✓		✓		✓
		Heavy	1321-3R45-C	1321-3RA45-C	1321-3R55-C	1321-3RA55-C	✓	✓		✓		✓
30	40	Normal	1321-3R55-C	1321-3RA55-C	1321-3R55-C	1321-3RA55-C	✓	✓		✓		✓
		Heavy	1321-3R55-C	1321-3RA55-C	1321-3R80-C	1321-3RA80-C	✓	✓		✓		✓
37	50	Normal	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C	✓	✓		✓		✓
		Heavy	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		✓
45	60	Normal	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		✓
		Heavy	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		✓
55	75	Normal	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C		✓		✓		✓
		Heavy	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C		✓		✓		✓
75	100	Normal	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C		✓		✓		✓
		Heavy	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C		✓		✓		✓
90	125	Normal	1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C		✓		✓		✓
		Heavy	1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C		✓		✓		✓
110	150	Normal	1321-3R200-C	1321-3RA200-C	1321-3R200-C‡	1321-3RA200-C‡		✓		✓		✓
		Heavy	1321-3R200-C	1321-3RA200-C	1321-3R200-C‡	1321-3RA200-C‡		✓	✓	✓		✓
		Heavy	1321-3RB250-C	1321-3RAB250-C	1321-3RB250-C‡	1321-3RAB250-C‡			✓	✓ §		
149	200	Normal	1321-3RB250-C	1321-3RAB250-C	1321-3RB250-C	1321-3RAB250-C		✓		✓ ♣		✓
		Heavy	1321-3RB250-C	1321-3RAB250-C	1321-3RB250-C	1321-3RAB250-C		✓	✓	✓		✓
187	250	Normal	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C		✓	✓			✓
		Heavy	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C		✓	✓			✓
224	300	Normal	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C		✓	✓			✓
		Heavy	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C		✓	✓			✓
		Heavy	1321-3RC400-C	–	1321-3RC400-C	–		✓	✓			✓

continued

⚙ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

‡ Requires two output reactors wired in parallel.

§ For use with 300A PowerFlex 700S.

♣ For use with 248A and 261A PowerFlex 700S.

Input and Output Line Reactors - 380...480V, 50/60 Hz, Three-Phase, 5% Impedance (continued)

kW	Hp	Duty ➤	Input Line Reactor ⚙		Output Reactor ⚙		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
261	350	Normal	1321-3R500-C	1321-3RA500-C	1321-3RB400-C	1321-3RAB400-C		✓				
		Normal	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C			✓			✓
		Heavy	1321-3R500-C	1321-3RA500-C	1321-3RB400-C	1321-3RAB400-C		✓	✓			
		Heavy	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C						✓
298	400	Light	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C						✓
		Normal	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C		✓				✓
		Heavy	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C		✓				✓
336	450	Light	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C						✓
		Normal	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C						✓
		Normal	1321-3R600-C	1321-3RA600-C	1321-3R500-C	1321-3RA500-C		✓	✓			
		Heavy	1321-3R600-C	1321-3RA600-C	1321-3R500-C	1321-3RA500-C		✓	✓			
		Heavy	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C						✓
373	500	Light	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C						✓
		Normal	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C		✓	✓			
		Normal	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C						✓
		Heavy	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C		✓	✓			
		Heavy	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C						✓
448	600	Normal	1321-3R750-E	1321-3RA750-E	1321-3R750-E	1321-3RA750-E		✓				
		Heavy	1321-3R750-E	1321-3RA750-E	1321-3R750-E	1321-3RA750-E		✓				
522	600	Light	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C						✓
		Normal	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C			✓ *			✓
485	650	Heavy	–	–	1321-3R750-C	1321-3RA750-C			✓ *			
		Light	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C						✓
522	700	Normal	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C						✓
		Light	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C		✓				
671	700	Normal	–	–	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
		Heavy	–	–	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
597	800	Normal	–	–	1321-3R500-C	1321-3RA500-C			✓ ‡			
746	800	Heavy	–	–	1321-3R500-C	1321-3RA500-C			✓ ‡			
671	900	Normal	–	–	1321-3R500-C	1321-3RA500-C			✓ ‡			
		Heavy	–	–	1321-3R600-C	1321-3RA600-C			✓ ‡			
746	1000	Normal	–	–	1321-3R600-C	1321-3RA600-C			✓ ‡			
		Heavy	–	–	1321-3R750-C	1321-3RA750-C			✓ ‡*			
895	1200	Normal	–	–	1321-3R750-C	1321-3RA750-C			✓ ‡*			
933	1250	Normal	–	–	1321-3R750-C	1321-3RA750-C			✓ ‡			

⚙ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

* 4% impedance.

‡ Requires two output reactors wired in parallel.

➤ Light Duty refers to PowerFlex 755 drives only.

Input and Output Line Reactors - 500...690V, 50/60 Hz, Three-Phase, 3% Impedance

kW	Hp	Duty	Input Line Reactor ⚙		Output Reactor ⚙		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	Heavy	1321-3R1-C	1321-3RA1-C	1321-3R1-B	1321-3RA1-B	✓					
0.37	0.5	Normal	1321-3R1-C	1321-3RA1-C	1321-3R1-B	1321-3RA1-B	✓					
		Heavy	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B		✓		✓		
0.55	0.75	Heavy	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B	✓					
0.75	1	Normal	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B	✓	✓		✓		
		Heavy	1321-3R2-B	1321-3RA2-B	1321-3R4-D	1321-3RA4-D		✓		✓		
1.1	1.5	Heavy	1321-3R2-A	1321-3RA2-A	1321-3R4-D	1321-3RA4-D	✓					
1.5	2	Normal	1321-3R4-C	1321-3RA4-C	1321-3R4-D	1321-3RA4-D	✓					
		Heavy	1321-3R4-C	1321-3RA4-C	1321-3R4-C	1321-3RA4-C	✓					
		Normal	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D		✓		✓		
		Heavy	1321-3R4-D	1321-3RA4-D	1321-3R4-C	1321-3RA4-C		✓		✓		
2.2	3	Normal	1321-3R4-C	1321-3RA4-C	1321-3R4-C	1321-3RA4-C	✓	✓		✓		
		Heavy	1321-3R4-C	1321-3RA4-C	1321-3R8-C	1321-3RA8-C	✓	✓		✓		
4	5	Normal	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C	✓	✓		✓		
		Heavy	1321-3R8-C	1321-3RA8-C	1321-3R12-C	1321-3RA12-C	✓	✓		✓		
5.5	7.5	Normal	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C	✓	✓		✓		
		Heavy	1321-3R12-C	1321-3RA12-C	1321-3R12-B	1321-3RA12-B	✓	✓		✓		
7.5	10	Normal	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B	✓	✓		✓		
		Heavy	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B	✓	✓		✓		
11	15	Normal	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B	✓	✓		✓		
		Heavy	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		
15	20	Normal	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B	✓	✓		✓		
		Heavy	1321-3R25-B	1321-3RA25-B	1321-3R35-C	1321-3RA35-C	✓	✓		✓		
18.5	25	Normal	1321-3R35-C	1321-3RA35-C	1321-3R35-C	1321-3RA35-C	✓	✓		✓		
		Heavy	1321-3R35-C	1321-3RA35-C	1321-3R35-B	1321-3RA35-B	✓	✓		✓		
22	30	Normal	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B	✓	✓		✓		
		Heavy	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B	✓	✓		✓		
30	40	Normal	1321-3R45-B	1321-3RA45-B	1321-3R45-B	1321-3RA45-B	✓	✓		✓		
		Heavy	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B	✓	✓		✓		
37	50	Normal	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B	✓	✓		✓		
		Heavy	1321-3R55-B	1321-3RA55-B	1321-3R80-B	1321-3RA80-B		✓		✓		
45	60	Normal	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
		Heavy	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
55	75	Normal	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
		Heavy	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B		✓		✓		
75	100	Normal	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B		✓		✓		
		Heavy	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B		✓		✓		
90	125	Normal	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B		✓		✓		
		Heavy	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B		✓		✓		
110	150	Normal	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B		✓		✓		
		Heavy	–	–	1321-3R200-C	1321-3RA200-C			✓			
		Normal	–	–	1321-3R200-C	1321-3RA200-C			✓			
		Heavy	–	–	1321-3R200-C	1321-3RA200-C			✓			
149	200	Normal	–	–	1321-3R200-B	1321-3RA200-B			✓			
		Heavy	–	–	1321-3R200-B	1321-3RA200-B			✓			
187	250	Normal	–	–	1321-3RB250-B	1321-3RAB250-B			✓			
		Heavy	–	–	1321-3RB250-B	1321-3RAB250-B			✓			

continued

⚙ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

‡ Requires two output reactors wired in parallel.

Input and Output Line Reactors - 500...690V, 50/60 Hz, Three-Phase, 3% Impedance (continued)

kW	Hp	Duty	Input Line Reactor ⌘		Output Reactor ⌘		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
261	350	Normal	–	–	1321-3RB320-B	1321-3RAB320-B			✓			
		Heavy	–	–	1321-3RB320-B	1321-3RAB320-B			✓			
298	400	Normal	–	–	1321-3RB400-B	1321-3RAB400-B			✓			
261	350	Heavy	–	–	1321-3RB320-B	1321-3RAB320-B			✓			
336	450	Normal	–	–	1321-3RB400-B	1321-3RAB400-B			✓			
298	400	Heavy	–	–	1321-3RB400-B	1321-3RAB400-B			✓			
336	450	Normal	–	–	1321-3R500-B	1321-3RA500-B			✓			
		Heavy	–	–	1321-3RB400-B	1321-3RAB400-B			✓			
373	500	Normal	–	–	1321-3R500-B	1321-3RA500-B			✓			
		Heavy	–	–	1321-3R500-B	1321-3RA500-B			✓			
448	600	Normal	–	–	1321-3R600-B	1321-3RA600-B			✓			
485	650	Heavy	–	–	1321-3RB320-B	1321-3RAB320-B			✓ ‡			
522	700	Normal	–	–	1321-3RB320-B	1321-3RAB320-B			✓ ‡			
		Heavy	–	–	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
597	800	Normal	–	–	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
671	900	Normal	–	–	1321-3RB400-B	1321-3RAB400-B			✓ ‡			
		Heavy	–	–	1321-3R1000-C	1321-3RA1000-C			✓			
746	1000	Normal	–	–	1321-3R1000-C	1321-3RA1000-C			✓			
		Heavy	–	–	1321-3R1000-B	1321-3RA1000-B			✓			
821	1100	Normal	–	–	1321-3R1000-B	1321-3RA1000-B			✓			
		Heavy	–	–	1321-3R600-B	1321-3RA600-B			✓ ‡			
970	1300	Normal	–	–	1321-3R600-B	1321-3RA600-B			✓ ‡			

⌘ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

‡ Requires two output reactors wired in parallel.

Input and Output Line Reactors - 500...690V, 50/60 Hz, Three-Phase, 5% Impedance

kW	Hp	Duty	Input Line Reactor ⚙		Output Reactor ⚙		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
0.25	0.33	Heavy	1321-3R1-A	1321-3RA1-A	1321-3R1-B	1321-3RA1-B	✓					
0.37	0.5	Normal	1321-3R1-B	1321-3RA1-B	1321-3R1-B	1321-3RA1-B	✓					
0.37	0.5	Heavy	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C		✓		✓		
0.55	0.75	Heavy	1321-3R2-C	1321-3RA2-C	1321-3R2-C	1321-3RA2-C	✓					
0.75	1	Normal	1321-3R2-C	1321-3RA2-C	1321-3R2-C	1321-3RA2-C	✓	✓		✓		
		Heavy	1321-3R2-C	1321-3RA2-C	1321-3R4-D‡	1321-3RA4-D‡		✓		✓		
1.1	1.5	Heavy	1321-3R2-B	1321-3RA2-B	1321-3R4-D‡	1321-3RA4-D‡	✓					
1.5	2	Normal	1321-3R4-D‡	1321-3RA4-D‡	1321-3R4-D‡	1321-3RA4-D‡	✓					
		Heavy	1321-3R4-D‡	1321-3RA4-D‡	1321-3R4-D	1321-3RA4-D	✓					
1.5	2	Normal	1321-3R4-D‡	1321-3RA4-D‡	1321-3R4-D‡	1321-3RA4-D‡		✓		✓		
		Heavy	1321-3R4-D‡	1321-3RA4-D‡	1321-3R4-D	1321-3RA4-D		✓		✓		
2.2	3	Normal	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D	✓	✓		✓		
		Heavy	1321-3R4-D	1321-3RA4-D	1321-3R8-D	1321-3RA8-D	✓	✓		✓		
4	5	Normal	1321-3R8-D	1321-3RA8-D	1321-3R8-D	1321-3RA8-D	✓	✓		✓		
		Heavy	1321-3R8-D	1321-3RA8-D	1321-3R12-C‡	1321-3RA12-C‡	✓	✓		✓		
5.5	7.5	Normal	1321-3R12-C‡	1321-3RA12-C‡	1321-3R12-C‡	1321-3RA12-C‡	✓	✓		✓		
		Heavy	1321-3R12-C‡	1321-3RA12-C‡	1321-3R12-C	1321-3RA12-C	✓	✓		✓		
7.5	10	Normal	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C	✓	✓		✓		
		Heavy	1321-3R12-C	1321-3RA12-C	1321-3R18-C	1321-3RA18-C	✓	✓		✓		
11	15	Normal	1321-3R18-C	1321-3RA18-C	1321-3R18-C	1321-3RA18-C	✓	✓		✓		
		Heavy	1321-3R18-C	1321-3RA18-C	1321-3R25-C‡	1321-3RA25-C‡	✓	✓		✓		
15	20	Normal	1321-3R25-C‡	1321-3RA25-C‡	1321-3R25-C‡	1321-3RA25-C‡	✓	✓		✓		
		Heavy	1321-3R25-C‡	1321-3RA25-C‡	1321-3R35-C‡	1321-3RA35-C‡	✓	✓		✓		
18.5	25	Normal	1321-3R35-C‡	1321-3RA35-C‡	1321-3R35-C‡	1321-3RA35-C‡	✓	✓		✓		
		Heavy	1321-3R35-C‡	1321-3RA35-C‡	1321-3R35-C‡	1321-3RA35-C‡	✓	✓		✓		
22	30	Normal	1321-3R35-C‡	1321-3RA35-C‡	1321-3R35-C‡	1321-3RA35-C‡	✓	✓		✓		
		Heavy	1321-3R35-C‡	1321-3RA35-C‡	1321-3R45-C	1321-3RA45-C	✓	✓		✓		
30	40	Normal	1321-3R45-C	1321-3RA45-C	1321-3R45-C	1321-3RA45-C	✓	✓		✓		
		Heavy	1321-3R45-C	1321-3RA45-C	1321-3R55-C	1321-3RA55-C	✓	✓		✓		
37	50	Normal	1321-3R55-C	1321-3RA55-C	1321-3R55-C	1321-3RA55-C	✓	✓		✓		
		Heavy	1321-3R55-C	1321-3RA55-C	1321-3R80-C	1321-3RA80-C		✓		✓		
45	60	Normal	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		
		Heavy	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		
55	75	Normal	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		
		Heavy	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C		✓		✓		
75	100	Normal	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C		✓		✓		
		Heavy	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C		✓		✓		
90	125	Normal	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C		✓ ‡		✓		
		Heavy	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C		✓ ‡		✓		
110	150	Normal	1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C		✓ ‡		✓		
		Heavy	–	–	1321-3R160-C	1321-3RA160-C			✓ *			
110	150	Normal	–	–	1321-3R200-C	1321-3RA200-C			✓ ♣			
		Heavy	–	–	1321-3R200-C	1321-3RA200-C			✓ ♣			
149	200	Normal	–	–	1321-3R200-B	1321-3RA200-B			✓ *			
		Heavy	–	–	1321-3R200-C	1321-3RA200-C			✓ *			

continued

⚙ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

* 4% impedance.

♣ 3% impedance.

‡ Requires two output reactors wired in parallel.

Input and Output Line Reactors - 500...690V, 50/60 Hz, Three-Phase, 5% Impedance (continued)

kW	Hp	Duty	Input Line Reactor ⌘		Output Reactor ⌘		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)						
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
187	250	Normal	—	—	1321-3RB250-C	1321-3RAB250-C			✓ *			
		Heavy	—	—	1321-3RB250-C	1321-3RAB250-C			✓ *			
261	350	Normal	—	—	1321-3RB320-C	1321-3RAB320-C			✓ *			
		Heavy	—	—	1321-3RB320-C	1321-3RAB320-C			✓ *			
298	400	Normal	—	—	1321-3RB400-C	1321-3RAB400-C			✓ *			
		Heavy	—	—	1321-3RB400-C	1321-3RAB400-C			✓ *			
336	450	Normal	—	—	1321-3R500-C	1321-3RA500-C			✓ *			
		Heavy	—	—	1321-3RB400-C	1321-3RAB400-C			✓			
373	500	Normal	—	—	1321-3R500-C	1321-3RA500-C			✓			
		Heavy	—	—	1321-3R500-C	1321-3RA500-C			✓			
448	600	Normal	—	—	1321-3R600-C	1321-3RA600-C			✓ *			
485	650	Heavy	—	—	1321-3RB320-C	1321-3RAB320-C			✓ *‡			
522	700	Normal	—	—	1321-3RB320-C	1321-3RAB320-C			✓ *‡			
		Heavy	—	—	1321-3RB400-C	1321-3RAB400-C			✓ *‡			
597	800	Normal	—	—	1321-3RB400-C	1321-3RAB400-C			✓ *‡			
671	900	Normal	—	—	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
		Heavy	—	—	1321-3R500-C	1321-3RA500-C			✓ *‡			
746	1000	Normal	—	—	1321-3R500-C	1321-3RA500-C			✓ *‡			
		Heavy	—	—	1321-3R1000-C	1321-3RA1000-C			✓ *			
821	1100	Normal	—	—	1321-3R1000-C	1321-3RA1000-C			✓ *			
		Heavy	—	—	1321-3R600-C	1321-3RA600-C			✓ *‡			
970	1300	Normal	—	—	1321-3R600-C	1321-3RA600-C			✓ *‡			

⌘ Input line reactors were sized based on the NEC fundamental motor amps (PowerFlex 700H has an integral input reactor). Output line reactors were sized based on the VFD rated output currents.

* 4% impedance.

‡ Requires two output reactors wired in parallel.

Output Reactors - 500...690V, 60 Hz, Three-Phase, 3% Impedance

kW	Hp	Duty	Output Reactor ⌘		Used with PowerFlex Drive					
			IP00 (Open Style)	IP11 (NEMA Type 1)						
			Cat. No.	Cat. No.	70	700	700H	700S	700L	753/755
132	200	Heavy	1321-3RB250-C	1321-3RAB250-C			✓			
160	250	Normal	1321-3RB250-C	1321-3RAB250-C			✓			
		Heavy	1321-3RB250-C	1321-3RAB250-C			✓			
200	300	Normal	1321-3RB250-C	1321-3RAB250-C			✓			
		Heavy	1321-3RB320-C	1321-3RAB320-C			✓			
250	250	Normal	1321-3RB320-C	1321-3RAB320-C			✓			
		Heavy	1321-3RB400-C	1321-3RAB400-C			✓			
315	350	Normal	1321-3RB400-C	1321-3RAB400-C			✓			
		Heavy	1321-3R500-C	1321-3RA500-C			✓			
355	400	Normal	1321-3R500-C	1321-3RA500-C			✓			
		Heavy	1321-3R600-C	1321-3RA600-C			✓			
400	450	Normal	1321-3R500-C	1321-3RA500-C			✓			
450	500	Normal	1321-3R600-C	1321-3RA600-C			✓			
		Heavy	1321-3R600-C	1321-3RA600-C			✓			
500	500	Normal	1321-3R600-C	1321-3RA600-C			✓			
		Heavy	1321-3R750-C	1321-3RA750-C			✓			
560	600	Normal	1321-3R750-C	1321-3RA750-C			✓			
		Heavy	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
630	700	Normal	1321-3RB400-C	1321-3RAB400-C			✓ ‡			
		Heavy	1321-3R500-C	1321-3RA500-C			✓ ‡			
710	800	Normal	1321-3R500-C	1321-3RA500-C			✓ ‡			
800	900	Normal	1321-3R500-C	1321-3RA500-C			✓ ‡			
		Heavy	1321-3R600-C	1321-3RA600-C			✓ ‡			
900	1000	Normal	1321-3R600-C	1321-3RA600-C			✓ ‡			
		Heavy	1321-3R600-C	1321-3RA600-C			✓ ‡			
1000	1100	Normal	1321-3R600-C	1321-3RA600-C			✓ ‡			
		Heavy	1321-3R750-C	1321-3RA750-C			✓ ‡			
1100	1300	Normal	1321-3R750-C	1321-3RA750-C			✓ ‡			

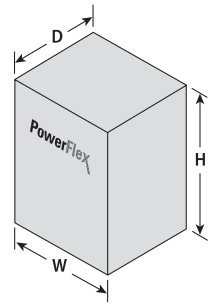
⌘ PowerFlex 700H has an integral input reactor. Output reactors were sized based on the VFD rated output currents.

‡ Requires two output reactors wired in parallel.

Approximate Dimensions & Weights

IP20/21, NEMA/UL Type 1/Open

Dimensions are in mm (in.) - weights are in kg (lb)



PowerFlex 4M - IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
A	174.0 (6.85)	72.0 (2.83)	136.0 (5.35)	1.58 (3.5)
B	174.0 (6.85)	100.0 (3.94)	136.0 (5.35)	2.09 (4.6)
C	260.0 (10.24)	130.0 (5.12)	180.0 (7.09)	4.81 (10.6)

PowerFlex 4 - IP20, NEMA/UL Type Open

Frame	H	H1 *	W	D	Weight
A	152.0 (5.98)	185.0 (7.28)	80.0 (3.15)	136.0 (5.35)	1.41 (3.1)
B	180.0 (7.09)	213.0 (8.39)	100.0 (3.94)	136.0 (5.35)	2.22 (4.9)

* Overall height of drive with IP30, NEMA 1/UL Type 1 option kit installed.

PowerFlex 40 - IP20, NEMA/UL Type Open

Frame	H	H1 *	H2 ☼	W	D	D2 ☼	Weight
B	180.0 (7.09)	213.0 (8.39)	244.0 (9.61)	100.0 (3.94)	136.0 (5.35)	161.0 (6.33)	2.22 (4.9)
C	260.0 (10.20)	320.0 (12.60)	320.0 (12.60)	130.0 (5.10)	180.0 (7.10)	205.0 (8.08)	4.31 (9.5)

* Drive with IP30, NEMA 1/UL Type 1 option kit installed.

☼ Drive with IP30, NEMA 1/UL Type 1 option kit and Communication Option (22-JBCx) installed.

PowerFlex 40P - IP20, NEMA/UL Type Open

Frame	H	H1 *	H2 ☼	W	D	D1 ☼	Weight
B	180.0 (7.09)	213.0 (8.39)	244.0 (9.61)	100.0 (3.94)	136.0 (5.35)	161.0 (6.34)	2.22 (4.9)
C	260.0 (10.20)	320.0 (12.60)	320.0 (12.60)	130.0 (5.10)	180.0 (7.10)	205.0 (8.07)	4.31 (9.5)

* Drive with IP30, NEMA 1/UL Type 1 option kit installed.

☼ Drive with IP30, NEMA 1/UL Type 1 option kit and Communication Option (22-JBCx) installed.

PowerFlex 70 - IP20, NEMA/UL Type Open

Frame	H	W	D	Weight *
A	225.7 (8.89)	122.4 (4.82)	179.8 (7.08)	2.71 (6.0)
B	234.6 (9.24)	171.7 (6.76)	179.8 (7.08)	3.60 (7.9)
C	300.0 (11.81)	185.0 (7.28)	179.8 (7.08)	6.89 (15.2)
D	350.0 (13.78)	219.9 (8.66)	179.8 (7.08)	9.25 (20.4)
E	555.8 (21.88)	280.3 (11.04)	207.1 (8.15)	18.60 (41.0)

* Weights include HIM and I/O.

PowerFlex 700 - IP20, NEMA/UL Type 1

Frame	H	W	D	Weight *
0	336.0 (13.23)	110.0 (4.33)	200.0 (7.87)	5.22 (11.5)
1	336.0 (13.23)	135.0 (5.31)	200.0 (7.87)	7.03 (15.5)
2	342.5 (13.48)	222.0 (8.74)	200.0 (7.87)	12.52 (27.6)
3	517.5 (20.37)	222.0 (8.74)	200.0 (7.87)	18.55 (40.9)
4	758.8 (29.87)	220.0 (8.66)	201.7 (7.94)	24.49 (54.0)
5	644.5 (25.37) ※	308.9 (12.16)	275.4 (10.84)	37.19 (82.0)
6	850.0 (33.46)	403.9 (15.90)	275.5 (10.85)	71.44 (157.5) §
7	1498.6 (59.00)	514.4 (20.25)	406.9 (16.02)	170.00 (375.0)
8	2373.9 (93.46)	757.7 (29.83)	889.0 (35.00) ‡	509.00 (1122.0)
9	2373.9 (93.46)	757.7 (29.83)	1016.0 (40.00)	526.00 (1159.0)
10 (AC Input)	2373.9 (93.46)	1267.7 (49.91)	889.0 (35.00)	867.00 (1912.0)
10 (DC Input)	2373.9 (93.46)	757.7 (29.83)	889.0 (35.00)	468.00 (1032.0)

* Weights include HIM and I/O.

※ When using the supplied junction box (100 Hp drives Only), add an additional 45.1 mm (1.78 in.) to this dimension.

‡ Depth for 20Bx535, 600 is 1016.0 (40.00).

§ Add 13.60 kg (30.0 lbs.) for the following drives; 20BB260, 20BC260 and 20BD248.

PowerFlex 700H - IP21, NEMA Type 1

Frame	H	W	D	Weight
9	1150.0 (45.28)	480.0 (18.90)	363.3 (14.32)	Refer to the PowerFlex 700H Technical Data
10	2275.0 (89.57)	597.0 (23.50)	632.5 (24.90)	
11	2275.0 (89.57)	797.0 (31.38)	621.7 (24.48)	
12	2275.0 (89.57)	1196.0 (47.09)	632.5 (24.90)	
13	2275.0 (89.57)	1412.0 (55.59) *	620.0 (24.41)	
14 (1500A)	2275.0 (89.57)	2397.0 (94.37)	620.0 (24.41)	
14 (above 1500A)	2275.0 (89.57)	2800.0 (110.24)	620.0 (24.41)	
14 (DC Input)	2270.0 (89.37)	1597.0 (62.87)	620.0 (24.41)	

* Width for 400/480V AC (540/650V DC) 1300 and 1450A is 1600.0 (62.99).

PowerFlex 700S - IP20/21, NEMA/UL Type 1

Frame	H	W	D	Weight *
1	336.0 (13.23)	166.9 (6.57) ‡	200.0 (7.87)	7.03 (15.5)
2	342.5 (13.48)	253.9 (9.99) ‡	200.0 (7.87)	12.52 (27.6)
3	517.5 (20.37)	253.9 (9.99) ‡	200.0 (7.87)	18.55 (40.9)
4	758.8 (29.87)	251.9 (9.92) ‡	201.7 (7.94)	24.49 (54.0)
5	644.5 (25.37) ※	339.9 (13.38) ‡	275.4 (10.84)	37.19 (82.0)
6	850.0 (33.46)	435.8 (17.16) ‡	275.5 (10.85)	71.44 (157.5) ♣
9	1150.0 (45.28)	480.0 (18.90)	363.3 (14.32)	Refer to the PowerFlex 700S Technical Data
10	2275.0 (89.57)	597.0 (23.50)	632.5 (24.90)	
11	2275.0 (89.57)	797.0 (31.38)	621.7 (24.48)	
12	2275.0 (89.57)	1196.1 (47.09)	632.5 (24.90)	
13	2275.0 (89.57)	1412.0 (55.6) §	620.0 (24.41)	
14 (1500A)	2275.0 (89.57)	2397.0 (94.37)	620.0 (24.41)	
14 (above 1500A)	2275.0 (89.57)	2800.0 (110.24)	620.0 (24.41)	
14 (DC Input)	2270.0 (89.37)	1597.0 (62.87)	620.0 (24.41)	

* Weights include HIM, DriveLogix controller with ControlNet daughtercard, Hi-Resolution Encoder Option, and 20-COMM-C ControlNet adapter.

※ When using the supplied junction box (100 Hp drives Only), add an additional 45.1 mm (1.78 in.) to this dimension.

‡ Dimension includes Expanded Cassette.

§ Width for 400/480V AC (540/650V DC) 1300 and 1450A is 1600.0 (62.99).

♣ Add an additional 3.6 kg (8.00 lbs.) for 200 Hp drives.

PowerFlex 700L - IP20, NEMA/UL Type 1

Frame	H	W	D	Weight
2	955.7 (37.63)	423.8 (16.68)	566.1 (22.29)	186.00 (410.0)
3A	2078.0 (81.90)	1200.0 (47.20)	600.0 (23.60)	950.00 (2090.0)
3B	2278.0 (89.80)	1600.0 (63.00)	800.0 (31.50)	1361.00 (3000.0)

PowerFlex 750-Series - IP00/IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
2	424.2 (16.70)	134.5 (5.30)	212.0 (8.35)	7.80 (17.2)
3	454.0 (17.87)	190.0 (7.48)	212.0 (8.35)	11.80 (26.1)
4	474.0 (18.66)	222.0 (8.74)	212.0 (8.35)	13.60 (30.0)
5	550.0 (21.65)	270.0 (10.63)	212.0 (8.35)	20.40 (45.0)
6	665.5 (26.20)	308.0 (12.13)	346.4 (13.64)	38.60 (85.0)
7	881.5 (34.70)	430.0 (16.93)	349.6 (13.76)	72.60...108.90 (160.0...240.0)

PowerFlex 750-Series - IP20, NEMA/UL Type 1, MCC Style Cabinet

Frame	H	W	D	Weight
8	2453.0 (96.60)	600.0 (23.60)	600.0 (23.60) or 800.0 (31.50)	Refer to the PowerFlex 750-Series Technical Data
8 w/Cabinet Option Bay	2453.0 (96.60)	1200.0 (47.20)	600.0 (23.60) or 800.0 (31.50)	

Panel Mount

PowerFlex 400

Frame	H	H1 *	W	D	Weight
C	260.0 (10.20)	320.0 (12.60)	130.0 (5.10)	180.0 (7.10)	Refer to the PowerFlex 400 User Manual
D	436.2 (17.17)	–	250.0 (9.84)	206.1 (8.11)	
E	605.5 (23.84)	–	370.0 (14.57)	259.2 (10.21)	
F	850.0 (33.46)	–	425.0 (16.73)	280.0 (11.02)	
G	892.0 (35.12)	–	425.0 (16.73)	264.0 (10.39)	
H	1363.8 (53.69)	–	529.2 (20.83)	358.6 (14.12)	

* Drive with IP30, NEMA 1/UL Type 1 option kit installed.

IP54, NEMA/UL Type 4X/12

PowerFlex 750-Series - IP54, NEMA/UL Type 12

Frame	H	W	D	Weight
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	Refer to the PowerFlex 750-Series Technical Data
3	551.0 (21.69)	268.0 (10.55)	220.1 (8.67)	
4	571.0 (22.48)	300.0 (11.81)	220.1 (8.67)	
5	647.0 (25.47)	348.0 (13.70)	220.1 (8.67)	
6	1298.3 (51.11)	609.4 (23.99)	464.7 (18.30)	
7	1614.0 (63.54)	609.4 (23.99)	464.7 (18.30)	

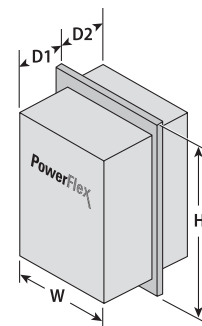
IP66, NEMA/UL Type 4X/12**PowerFlex 40**

Frame	H	W	D	Weight
B	270.0 (10.63)	165.0 (6.50)	198.0 (7.80)	Refer to the PowerFlex 4/40 Technical Data

PowerFlex 70

Frame	H	W	D	Weight *
B	239.8 (9.44)	171.7 (6.76)	203.3 (8.00)	3.61 (8.0)
D	350.0 (13.78)	219.9 (8.66)	210.7 (8.29)	9.13 (20.1)
E	555.8 (21.88)	280.3 (11.04)	219.8 (8.65)	18.6 (41.0)

* Weights include HIM and I/O.

Flange Mount*Dimensions are in mm (in.) - weights are in kg (lb)***PowerFlex 4**

Frame	H	W	D1	D2	Weight
A	210.0 (8.27)	175.0 (6.89)	92.8 (3.65)	54.7 (2.15)	Refer to the PowerFlex 4/40 Technical Data
B	250.0 (9.84)	244.0 (9.61)	94.3 (3.71)	63.1 (2.48)	

PowerFlex 40

Frame	H	W	D1	D2	Weight
B	250.0 (9.84)	244.0 (9.61)	94.3 (3.71)	63.1 (2.48)	Refer to the PowerFlex 4/40 Technical Data
C	325.0 (12.80)	300.0 (11.81)	105.8 (4.17)	138.2 (5.44)	

PowerFlex 40P

Frame	H	W	D1	D2	Weight
B	250.0 (9.84)	244.0 (9.61)	94.3 (3.71)	63.1 (2.48)	Refer to the PowerFlex 40P Technical Data
C	325.0 (12.80)	300.0 (11.81)	105.8 (4.17)	138.2 (5.44)	

PowerFlex 400

Frame	H	W	D1	D2	Weight
C	325.0 (12.80)	300.0 (11.81)	105.8 (4.17)	138.2 (5.44)	Refer to the PowerFlex 400 User Manual

PowerFlex 70

Frame	H	W	D1	D2	Weight *
A	225.8 (8.89)	156.0 (6.14)	123.0 (4.84)	55.6 (2.19)	2.71 (6.0)
B	234.6 (9.24)	205.2 (8.08)	123.0 (4.84)	55.6 (2.19)	3.60 (7.9)
C	300.0 (11.81)	219.0 (8.62)	123.0 (4.84)	55.6 (2.19)	6.89 (15.2)
D	350.0 (13.78)	248.4 (9.78)	123.0 (4.84)	55.6 (2.19)	9.25 (20.4)
E	555.8 (21.88)	280.3 (11.04)	117.2 (4.61)	89.9 (3.54)	18.60 (41.0)

* Weights include HIM and I/O.

PowerFlex 700 - Open/Flange Mount (Front = IP00, NEMA/UL Type Open, Back/Heatsink = IP54, NEMA 12)

Frame	H	W	D1	D2	Weight
5 §	1061.0 (41.77)	500.0 (19.69)	303.6 (11.95)	97.0 (3.82)	61.69 (136.0)
6 §	1100.0 (43.30)	584.0 (23.00)	294.7 (11.60)	131.6 (5.20)	99.79 (220.0)
7	1498.6 (59.00)	514.4 (20.25)	218.2 (8.59)	134.6 (5.30)	146.96 (324.0)
8	2275.8 (89.60)	757.7 (29.83)	345.4 (13.60)	254.0 (10.00) ♣	384.19 (847.0)
9	2275.8 (89.60)	757.7 (29.83)	400.8 (15.78)	381.0 (15.00)	400.98 (884.0)
10 (AC Input)	2275.8 (89.60)	1267.7 (49.91)	338.6 (13.30)	252.7 (9.95)	531.61 (1172.0)
10 (DC Input)	2275.8 (89.60)	757.7 (29.83)	338.6 (13.30)	252.7 (9.95)	304.81 (672.0)

§ 400...690V drives only.

♣ Depth for 20Bx535, 600 is 381.0 (15.00).

PowerFlex 750-Series - Flange Mount

Frame	H	W	D1	D2	Weight
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	Refer to the PowerFlex 750-Series Technical Data
3	515.0 (20.28)	260.0 (10.24)	127.4 (5.02)	84.6 (3.33)	
4	535.0 (21.06)	292.0 (11.50)	127.4 (5.02)	84.6 (3.33)	
5	611.0 (24.06)	340.0 (13.39)	127.4 (5.02)	84.6 (3.33)	
6	665.5 (26.20)	308.0 (12.13)	208.4 (8.20)	138.0 (5.43)	
7	875.0 (34.45)	430.0 (16.93)	208.4 (8.20)	138.0 (5.43)	



PowerFlex 7000 Medium Voltage Drives

Improve efficiency and maximize profitability

The Allen-Bradley PowerFlex 7000 medium voltage drives enable soft-starting and variable-speed control for processes with high power demands from 150...25,400 kW / 200...34,000 Hp. The family of PowerFlex medium voltage drives is designed to help maximize your uptime and provide the lowest total cost of ownership. Patented PowerCage™ modules allow you to replace power devices in less than ten minutes, reducing your installation time and costs by using a central cabling cabinet for the complete drive package. Additionally, with advanced power semiconductor technology, component count is reduced to the lowest of any medium voltage drive available – translating to increased savings and reliability, reduced downtime and fewer spare parts. As with the family of PowerFlex low voltage drives, you can easily monitor and control your processes via communications and software providing you with valuable and timely information to help in decision making.

Direct-to-Drive Technology

Reduce the cost, size and weight of your medium voltage drive system with the Allen-Bradley PowerFlex 7000 with Direct-to-Drive technology. This is the first and only technology that allows you to directly connect a medium voltage drive to utility power without the requirement of an isolation transformer. Isolation transformers with multiple secondary windings are required for traditional AC drives to address line-side harmonic concerns and common mode voltage. However, typical isolation transformers are large, heavy, costly, complex and inefficient. Direct-to-Drive technology combines an Active Front End (AFE) rectifier to dramatically lower line-side harmonics and a patented DC link inductor to address common mode voltage at its source. By addressing harmonics and common mode voltage, the isolation transformer becomes redundant. This reduces system complexity to maximize uptime and increases system efficiency to lower operational costs. Exceptional output voltage and current waveforms, true of our entire product line, make this ideal for retrofit applications and allow the use of standard motors for new applications.



Air-Cooled, PowerFlex 7000

Enhance motor control and increase energy efficiency on motor applications from 150...4100 kW / 200...5500 Hp with the Allen-Bradley PowerFlex 7000 air-cooled medium voltage AC variable frequency drives. Three configurations (Direct-to-Drive, AFE and 18-pulse) allow optimal flexibility for a variety of installations.



Liquid-Cooled PowerFlex 7000

Users with higher horsepower needs can reduce energy use and improve process control on motors from 2240...6340 kW / 3000...8500 Hp at 4160 to 6900V nominal supply voltage ratings. Increase reliability with the closed-loop liquid-cooling system with liquid-to-air or liquid-to-liquid style heat exchanger options and an integral pump cabinet.

Extended Horsepower PowerFlex 7000

Available up to 25,400 kW / 34,000 Hp, these high horsepower air-cooled and liquid-cooled drive modules have the proven technology and benefits of PowerFlex 7000 medium voltage drives. PowerFlex 7000 extended horsepower drive systems are effective solutions for hot back-up and redundancy, LCI retrofits, and horsepower upgrades.



PowerFlex 7000 "A" Frame

- Air cooling
- Low end power range, 150...930 kW / 200...1250 Hp
- 2400 to 6600V nominal supply voltage ratings
- Compact packaging for smallest footprint requirements
- Three input configurations for optimum installation flexibility
 - 1) Direct-to-Drive
 - 2) AFE Rectifier (connection to separate isolation transformer)
 - 3) AFE Rectifier (complete with integral isolation transformer)
- Normal duty service rating (for variable torque loads, 110% overload for 1 minute every 10 minutes)
- Heavy duty service rating (for constant torque loads, 150% overload for 1 minute every 10 minutes)
- Active Front End rectifier for low line harmonics, high power factor and commonality of parts
- Three (3) cables in / Three (3) cables out for lower installation costs



PowerFlex 7000 "B" Frame

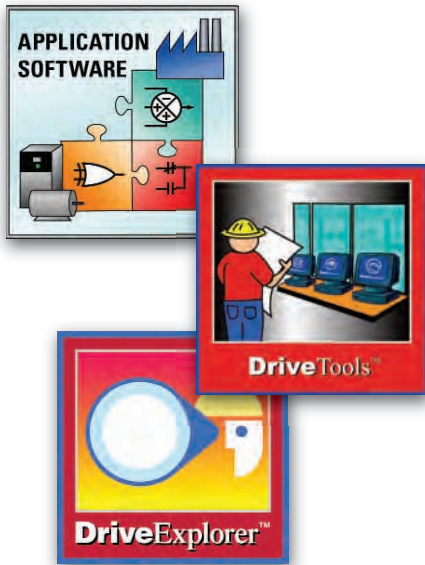
- Air cooling
- Low and Medium power range, 150...4100 kW / 200...5500 Hp
- 2400 to 6600V nominal supply voltage ratings
- Normal duty service rating (for variable torque loads, 110% overload for 1 minute every 10 minutes)
- Heavy duty service rating (for constant torque loads, 150% overload for 1 minute every 10 minutes)
- Three input configurations for optimum installation flexibility
 - 1) Direct-to-Drive
 - 2) AFE Rectifier (for connection to separate transformer)
 - 3) 8-pulse rectifier for low line harmonics and connection to a high voltage distribution system
- Three (3) cables in / Three (3) cables out (AFE rectifier)
- Nine (9) cables in / Three (3) cables out (18-pulse rectifier)



PowerFlex 7000L "C" Frame

- Closed loop liquid cooling system with liquid-to-air or liquid-to-liquid style heat exchangers
- High end power range, 2240...6770 kW / 3000...9000 Hp
- 4160 to 6600V nominal supply voltage ratings
- Small integrated package for high end power range
- Normal duty service rating (for variable torque loads, 110% overload for 1 minute every 10 minutes)
- Heavy duty service rating (for constant torque loads, 150% overload for 1 minute every 10 minutes)
- Three input configurations for optimum installation flexibility:
 - 1) Direct-to-Drive
 - 2) AFE Rectifier (for connection to separate transformer)
 - 3) 18-pulse rectifier for low line harmonics and connection to a high voltage distribution system
- Three (3) cables in / Three (3) cables out (AFE rectifier)
- Nine (9) cables in / Three (3) cables out (18-pulse rectifier)

Software



DriveTools SP Software

DriveTools SP is a family of software tools designed for Microsoft® Windows® 2000/XP/Vista® operating systems. These applications provide a simplified programming interface for programming, troubleshooting, and maintaining your PowerFlex AC and DC drive products.

Easy to use menus, dialogs, wizards, and graphic displays help you quickly start up your PowerFlex drive product. Powerful diagnostic features simplify diagnosing drive as well as system problems.

DriveTools SP feature enhancements over DriveExplorer:

- Offline configuration
- RSLinx connectivity
- Trend charts (DriveObserver)
- Overview diagrams

DriveExecutive



DriveExecutive™

This software is an online/offline drive and adapter configuration tool that leverages Windows Explorer-style navigation, built-in html product help, and handy diagnostic and setup wizards. A state-of-the-art comparison tool lets you look at differences and make two devices/files the same.

DriveObserver



DriveObserver™

This software provides real-time chart displays of drive performance to help you set up, tune, and troubleshoot your drive applications. Charts can contain parameters from multiple drives and/or adapters from multiple networks as needed. Files save data for offline viewing and chart set up for collecting new data later.

Product Selection

Application	Cat. No.	No. of Licenses
DriveExecutive	9303-4DTE01ENE	1
DriveTools SP Suite -includes DriveExecutive, DriveObserver	9303-4DTS01ENE	1
DriveTools SP Suite Upgrade from DriveExecutive-includes DriveExecutive, DriveObserver	9303-4DTE2S01ENE	1

Media

DriveExecutive and DriveTools SP distribution media is CD-ROM, and the language supported is English.

DriveExplorer Software



DriveExplorer software is an easy-to-use, cost effective application that provides you with an intuitive means for monitoring and online configuration of your PowerFlex drives and communication adapters.

DriveExplorer software is available in two different versions:

- DriveExplorer for PC (full version) with all features
 - Ethernet
 - Serial to network routing
 - Serial point-to-point
- DriveExplorer Lite (freeware)
 - Serial point-to-point only

DriveExplorer software is designed for the following Microsoft operating systems:

- Windows XP
- Windows 2000
- Windows Vista

Set-up wizards are also available for use with DriveExplorer (Lite and full versions).

Product Selection

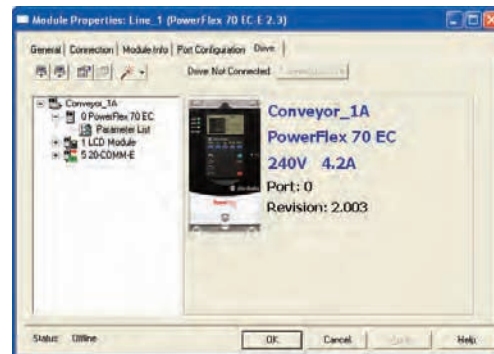
Application	Cat. No.	No. of Licenses
DriveExplorer for PC	9306-4EXP02ENE	1
DriveExplorer Lite	NA *	1

*Download at http://www.ab.com/drives/driveexplorer/free_download.html. A CD is also included with 1203-USB, 1203-SSS and 22-SCM-232 Serial Converters.

Distribution Media

All DriveExplorer versions are distributed on CD-ROM, and the language supported is English.

RSLogix 5000



RSLogix 5000 includes full configuration and download support for the Rockwell Automation PowerFlex family of drives and select legacy drives. By integrating this part of the system into a single software package, management of drives in a control system is easier because there is only one software package to buy and learn.

Integrated PowerFlex configuration and setup wizards streamline drives installation with EtherNet/IP and ControlNet networks by eliminating the task of individually configuring the required drive parameters and tags. You no longer have to complete complicated programming functions when installing drives or constantly refer back to user manuals for specific parameter and tag information.

- Compatible with RSLogix 5000 v16 and higher, and for select drives on ControlNet or EtherNet/IP
- Dynamically select drive parameters transmitted as network I/O
- Wizards walk you through drive parameter configuration
- Diagnostic, fault, alarm, and event information are integral to RSLogix 5000
- Allows continual use with DriveExplorer and DriveTools SP via import/export function
- Access, edit and save drive information to the control system project with ease

Ships with RSLogix 5000 and also available via free download at:

<http://www.ab.com/support/abdrives/webupdate>

Rockwell Automation Services and Support

Leveraging Rockwell Automation Services & Support for Intelligent Motor Control



Rockwell Automation Services & Support can help you meet your everyday technical needs and maximize your return on automation investments by providing value-add maintenance, lifecycle management and system optimization solutions. Applicable

throughout your entire enterprise, these solutions can help you meet your goals by increasing speed to change, improving equipment performance to specifications, decreasing downtime and reducing costs. They will also help you create a more sustainable production environment by reducing energy consumption, driving green initiatives and improving safety.

Startup and Commissioning Services will quickly commission select drives to help you reduce the time between integration and actual startup. Our standardized process validates that necessary electrical, mechanical and environmental criteria have been met and the appropriate steps have been taken to ensure proper drive operation. This service also comes with an Extended Parts & Labor Warranty.

Manufacturing Convergence, merging IT and manufacturing systems – has created the need for two groups once purposely separated, to now coexist creating an unique capability to seamlessly integrate the enterprise and manufacturing levels.

Network and Security Services provide you with a knowledgeable team, expertly trained in both manufacturing and IT with domain expertise to provide you with the appropriate services your industrial control and information networks require.

OnSite Services provide field service professionals on an as needed, scheduled or full-time basis to perform drive startup services, conversion services or preventive maintenance.

Safety Services help you comply with safety standards to reduce the risk of injuries and improve productivity. Our global safety team of principle consultants can help you at any step of a safeguarding project – from training and standards assistance through validation and startup.

Training Services provides a Drives Curriculum Map with over a dozen drive-specific instructor-led training courses. In addition, web-based training materials are also available.

Repair Services from Rockwell Automation, the original equipment manufacturer, can provide complete, cost-effective remanufacturing services and factory enhancements that extend equipment life, enhancing its performance and compatibility.

Remanufacturing Services

Three delivery/warranty options:

- Next Day (24 month warranty)*
- 3-5 Days (18 month warranty)*
- 2-3 Weeks (12 month warranty)*

* Delivery options for US only

Third Party Repair

(non Rockwell Automation Products)

- Single source for all electric/electronic, mechanical, and servo repairs
- 200,000+ items, 7000+ manufacturers

Annual Repair Agreements

Take advantage of a fixed price agreement to help you stabilize your annual repair budget, which can include functional validation of spares.

InSite Managed Services help you get back to work. InSite provides you with the tools, resources and applications to help you:

- Reduce costs
- Fill core support gaps
- Manage risk and complex systems/technologies
- Optimize system performance

InSite can deliver and support you through six separate capabilities that can be combined for and tailored specifically for your plant and system requirements to help you meet your goals. With each capability, you are aligned with a global team of support engineers who go through a process of steps to become familiar with your site(s), systems and applications.

Contact an authorized Rockwell Automation distributor or Rockwell Automation representative for more information.

Additional Resources

PowerFlex Drives	www.ab.com/drives
PowerFlex Drives Catalog Information	www.ab.com/catalogs
Technical Support & Service	www.ab.com/support/abdrives
Product Selection Tools	www.ab.com/e-tools
All publications can be found online	www.rockwellautomation.com/literature
Low Voltage PowerFlex Drives Installation Instructions and User Manuals	Search by respective product
PowerFlex DC Selection Guide	20P-SG001_
Drives Wiring & Grounding Guide (PWM) AC Drives	DRIVES-IN001_
Medium Voltage PowerFlex Drives Selection Guide	7000-SG010_
CENTERLINE 2100 Motor Control Centers Selection Guide	2100-SG003_
CENTERLINE 2500 Motor Control Centers Selection Guide	2500-SG001_
Kinetix Motion Control Selection Guide	GMC-SG001_
Common Bus application reference materials	Search by respective product
Learn More About...	www.rockwellautomation.com/solutions/...
Intelligent Motor Control Solutions	...intelligentcontrol/
Integrated Architecture	...integratedarchitecture/
Safety Solutions	...safety/
Sustainability	...sustainability/
Essential Components	www.rockwellautomation.com/components



Rockwell Automation Services & Support

Global Support. Local Address. Peace of Mind.

Providing the resources you need, when and where you need them, Rockwell Automation has an integrated, global network of ISO-certified repair centers, exchange hubs, field service professionals, IACET-recognized training centers, certified technical phone support centers and online tools.

www.rockwellautomation.com/services



Meet Your Everyday Technical Needs

Online & Phone Support	Training Services	OnSite Support	Repair Services
<ul style="list-style-type: none"> • System level support • Unlimited, real-time support • Unlimited, online resources & tools • Live chat & support forums 	<ul style="list-style-type: none"> • Instructor-led & computer or web-based courses • Workstations • Job aids • Knowledge assessments 	<ul style="list-style-type: none"> • Embedded engineering • Preventive maintenance • Migrations & conversions • Start-up & commissioning 	<ul style="list-style-type: none"> • Product remanufacturing • Third-party repair • Annual repair agreements

Maximize Your Automation Investment

MRO Asset Management	Network & Security Services	Safety & Energy Services	InSite Managed Services
<ul style="list-style-type: none"> • Warranty tracking • Consolidated asset reports • Quick access to global spare parts inventory • Owned & managed spare parts inventory 	<ul style="list-style-type: none"> • Control system lifecycle services • Manage network convergence • Security technology, policies and procedures services 	<ul style="list-style-type: none"> • Machine safety assessments • Safety design, integration, validation services • General & comprehensive energy audits 	<ul style="list-style-type: none"> • Remote system monitoring • Customized, secured access to site-specific documentation • Managed application support services

Visit the Rockwell Automation Knowledgebase, www.rockwellautomation.com/knowledgebase for technical information and assistance, plus:

- View technical/application notes
- Obtain software patches
- Subscribe for product/service e-mail notifications
- Submit a Question, Live Chat, Support Forums and more

Visit Get Support Now, www.rockwellautomation.com/support to select your country and find your local support information.

Allen-Bradley, CenterONE, ControlLogix, CrossWorks, DeviceLogix, Direct-to-Drive, DriveExplorer, DriveGuard, DriveTools, Force Technology, Integrated Architecture, Kinetix, MCS, PowerCage, PowerFlex, Product Selection Toolbox, ProposalWorks, RailBuilder, RSLogix, SynchLink and TorqProv are trademarks of Rockwell Automation. CIP Motion, CIP Sync, ControlNet, DeviceNet, EtherNet/IP are trademarks of the Open DeviceNet Vendor Association. Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846